



# Log Collection Configuration Guide

for Version 11.2



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## About Log Collection

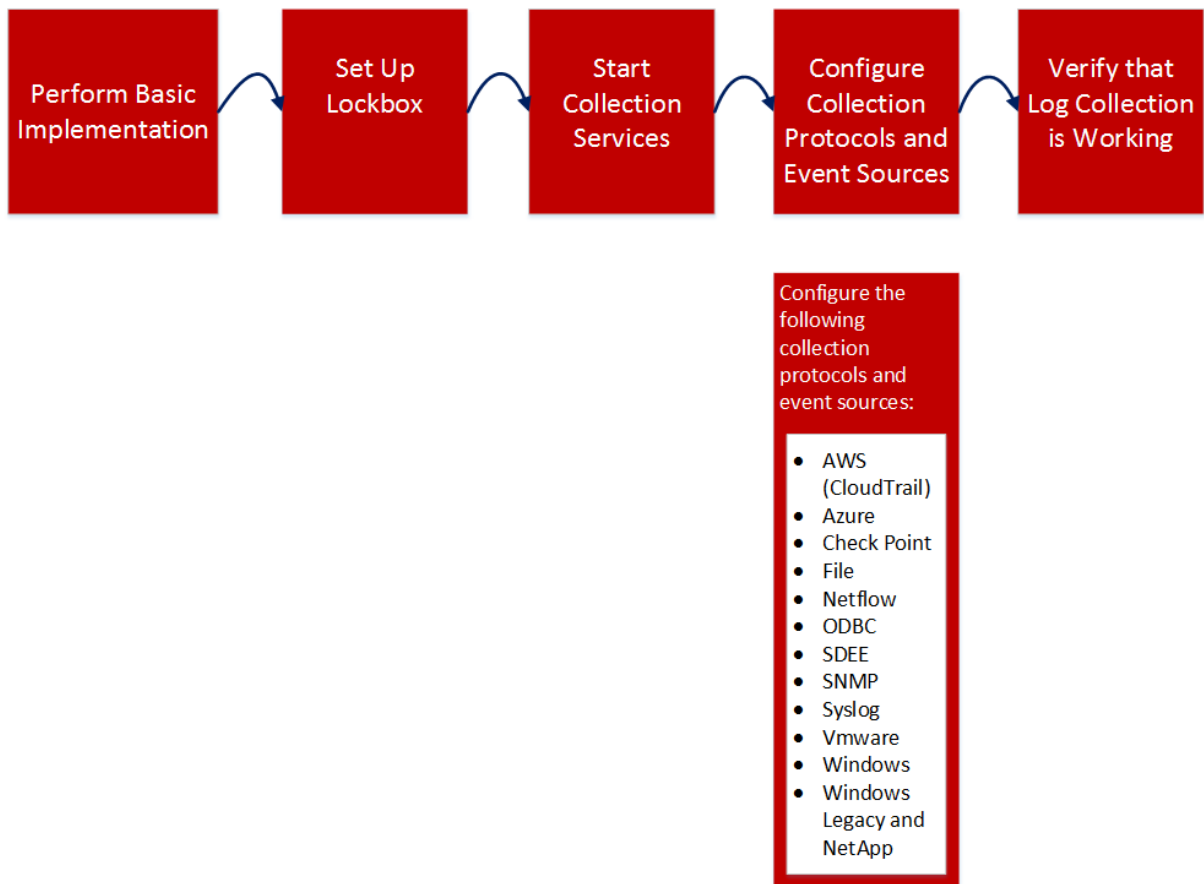
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This guide describes the high-level steps and subtasks for setting up and configuring log collection for event sources that include:

- What Log Collection does, how it works from a high level, and provides high-level deployment diagrams.
- How to start collecting events.
- Where to find instructions to set up more complex deployments.
- How to start any collection protocol.
- What the structure of the Log Collection Configuration User Interface is.
- Which tools to use to troubleshoot Log Collection issues and lists global troubleshooting instructions.
- How to fine tune and customize Log Collection in your environment.
- How to configure individual collection protocols. Instructions are in the individual Log Collection sections.

### Workflow

This workflow depicts the basic tasks needed to start collecting events through Log Collection.



## High-Level Procedures

At a high level, these are the procedures you must follow for log collection:

I. Add local and remote collectors to RSA NetWitness Platform.

Set up a Log Collector locally on a Log Decoder (that is a Local Collector). You can also set up Log Collectors in as many remote locations (that is Remote Collectors) as you need for your enterprise. For details, see [Basic Implementation](#).

II. Download the latest content from Live. This is a task that you perform periodically, as the content provided on Live is updated regularly.

LIVE is the Content Management System for RSA NetWitness® Platform, from which you download the latest content. The two resource types you use to download Log Collection content are:

- **RSA Log Collector** - content enabling the collection of event source types.
- **RSA Log Device** - the latest supported event source parsers.

You can also subscribe to content on Live. For details, see the *Live Services Management Guide*.

III. Configure Settings: set up the lockbox and Certificates.

For details, see [Set Up a Lockbox](#) and [Configure Certificates](#).



### IV. Configure Event Sources.

You configure all the event sources on your network to send their log information to RSA NetWitness Platform. Whenever you add new event sources, you need to perform this procedure as well. All event source configuration guides are found in the [RSA Supported Event Sources space](#) in RSA Link.

- V. Start and stop services for configured protocols. Occasionally, you may be required to stop and restart services, based on new event sources that you add to RSA NetWitness Platform.

### VI. Verify that Log Collection is working.

Whenever you set up a new event source or add a new collection protocol, you should verify that the correct logs are being sent to RSA NetWitness Platform.

# Log Collection Architecture

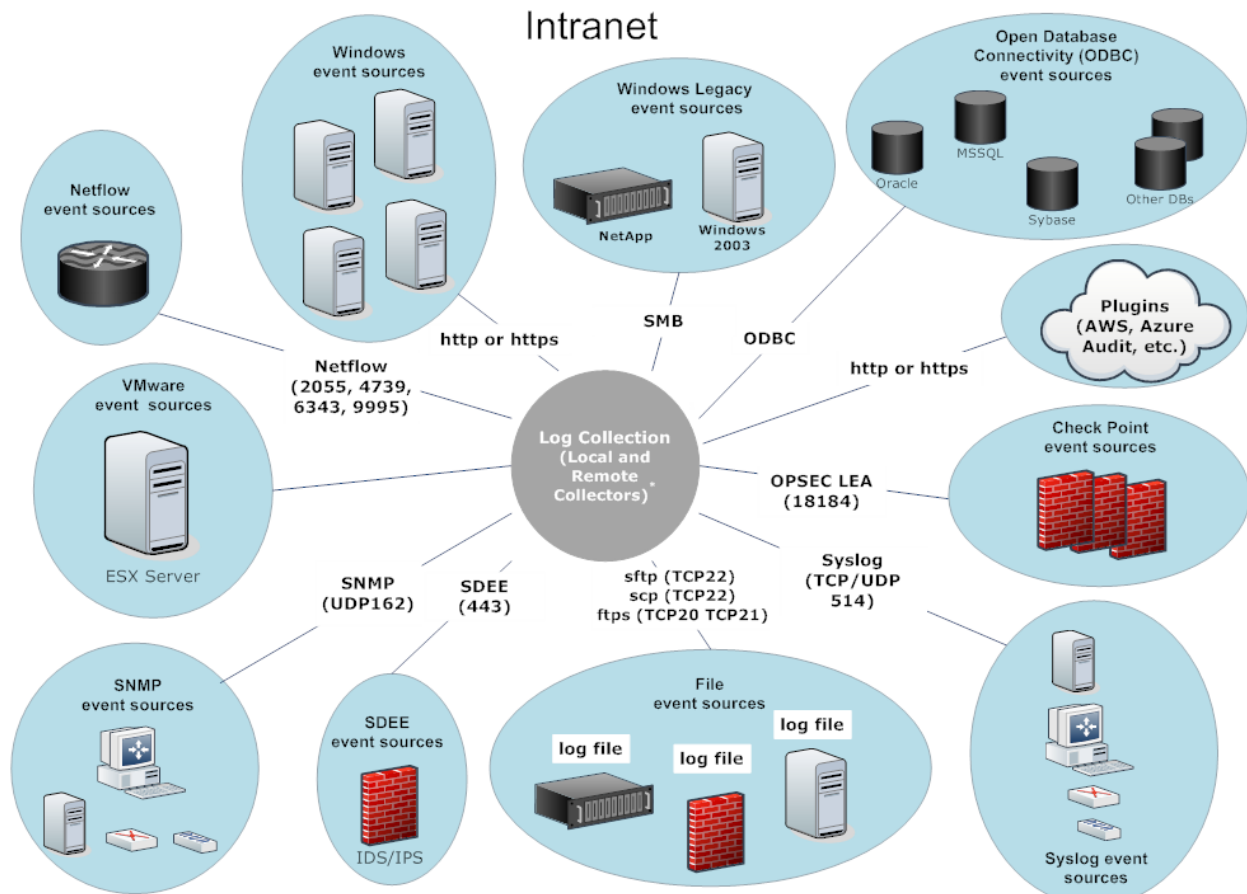
This topic describes how NetWitness Platform performs log collection.

## How to Deploy Log Collection

You can deploy Log Collection according to needs and preferences of your enterprise. This includes deploying Log Collection across multiple locations and collect data from varying sets of event sources. You do this by setting up a Local Collector with one or many Remote Collectors.

## Components of Log Collection

The following figure shows all the components involved in event collection through the NetWitness Platform Log Collector.



\*In Log Collection, Remote Collectors send events to the Local Collector and the Local Collector sends events to the Log Decoder.

## Local and Remote Collectors

In this scenario, log collection from various protocols like Windows, ODBC, and so on, is performed through both the Remote Collector and Log Collector service. If the log collection is done by the Local Collector, it is forwarded to the Log Decoder service, just like the local deployment scenario. If the log collection is done by a Remote Collector, there are two methods in which these are transferred to the Local Collector:

- **Pull Configuration** - From a Local Collector, you select the Remote Collectors from which you want to pull events.
- **Push Configuration** - From a Remote Collector, you select the Local Collector to which you want to push events.

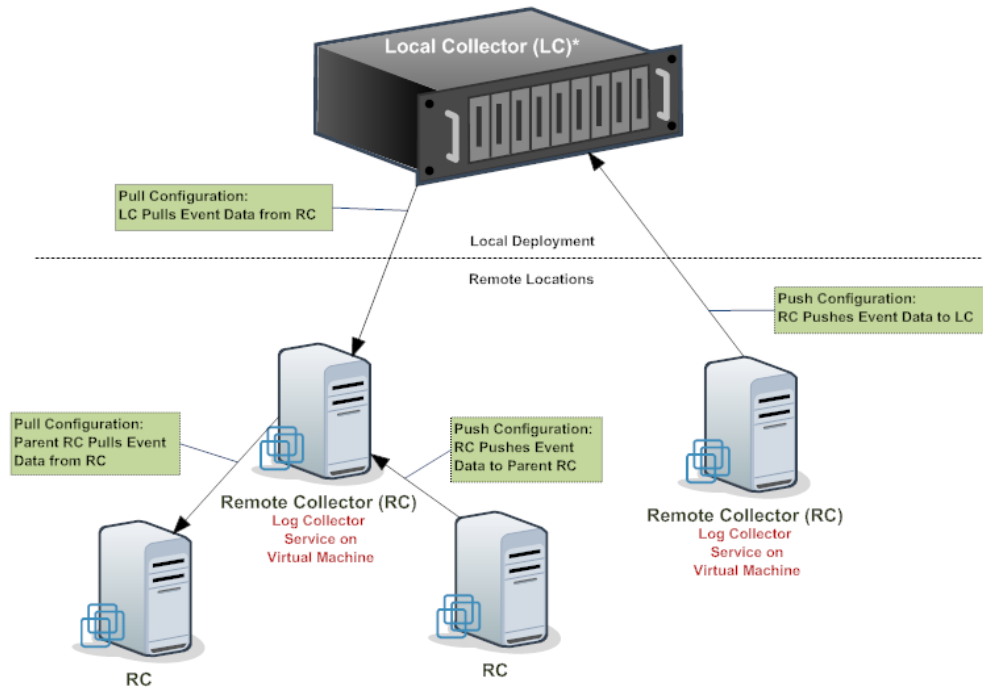
**Note:** The typical use case is Push. Pull is available if you have a DMZ in your environment. Less secure network segments are not allowed to make connections to more secure network segments. With Pull, the Log Collector (or Virtual Log Collector) in the secure network initiates the connection to the VLC in the less secure network, and the logs are then transferred without breaking the connection rules.

You can configure one or more Remote Collectors to push event data to a Local Collector, or you can configure a Local Collector to pull event data from one or more Remote Collectors.

Additionally, you can set up a chain of Remote Collectors for which you can configure:

- One or more Remote Collectors to push event data to a Remote Collector.
- A Remote Collector to pull event data from one or more Remote Collectors.

The following figure illustrates how the Local and Remote Collectors interact to collect events from all of your locations.



\* The Local Collector (LC) is the Log Collector service on the Log Decoder appliance.

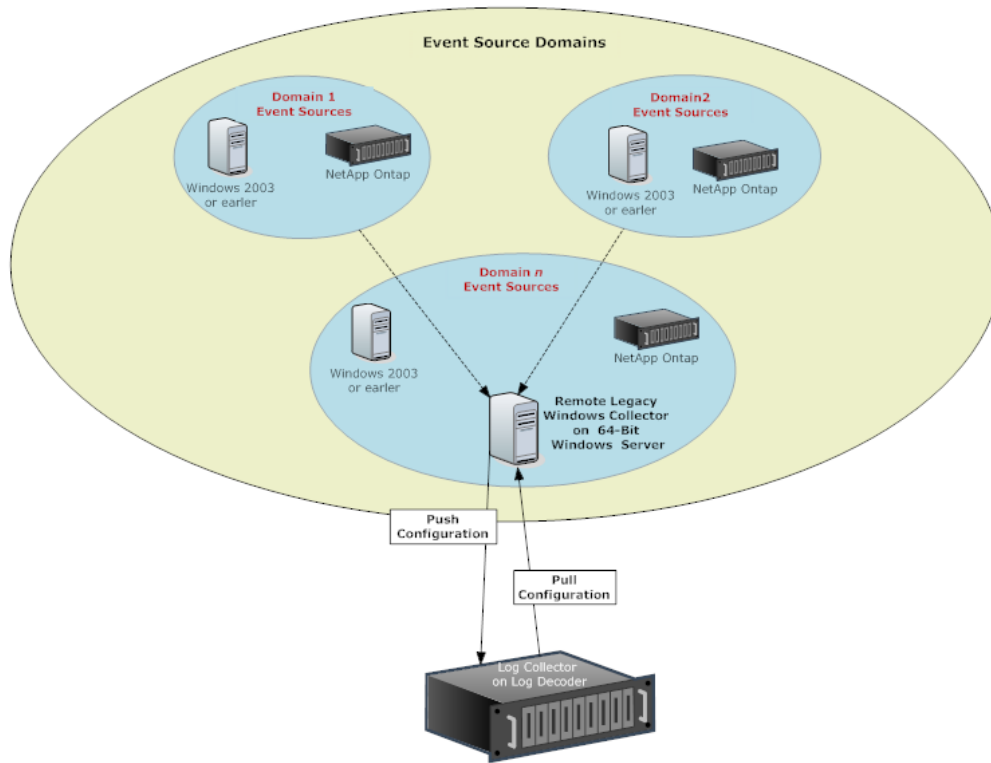
## Windows Legacy Remote Collector

The RSA NetWitness® Platform Windows Legacy Collector is a Microsoft Windows based remote log collector (RC) which can be installed on a Windows domain.

It supports collection from:

- Windows 2003 and earlier event sources
- NetApp ONTAP host evt files

The following figure illustrates the deployment required to collect events from Windows Legacy event sources.



# Setup

---

## Basic Implementation

This topic tells how to perform the initial setup of Local Collectors and Remote Collectors.

### Prerequisites

Verify that the Log Decoder is set up and:

- is capturing data.
- has the current content loaded.
- is properly licensed.

### Roles of Local and Remote Collectors

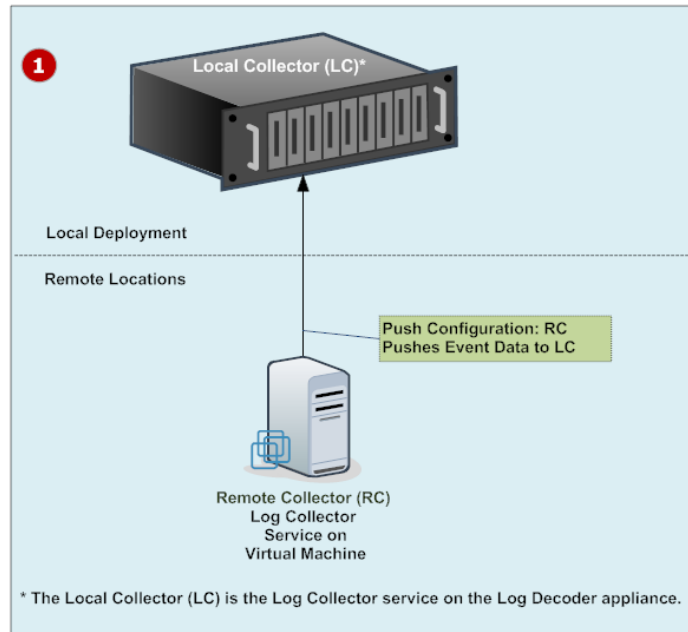
A Local Collector (LC) is a Log Collector service running on a Log Decoder host. In a local deployment scenario, the Log Collector service is deployed on a Log Decoder host, with the Log Decoder service. Log collection from various protocols like Windows, ODBC, and so on, is performed through the Log Collector service, and events are forwarded to the Log Decoder service. The Local Collector sends all collected event data to the Log Decoder service.

You must have at least one Local Collector to collect non-Syslog events.

A Remote Collector (RC), also referred to as a Virtual Log Collector (VLC), is a Log Collector service running on a stand-alone Virtual Machine. Remote Collectors are optional and they must send the events they collect to a Local Collector. Remote Collector deployment is ideal when you have to collect logs from remote locations. Remote Collectors compress and encrypt the logs before sending them to a Local Collector.

### Deploying and Configuring Log Collection

The following diagram illustrates the basic tasks you must complete to deploy and configure Log Collection. To deploy Log Collection, you need to set up a Local Collector. You can also deploy one or more Remote Collectors. After you deploy Log Collection, you need to configure the events sources in NetWitness Platform and on the events sources themselves. The following diagram shows the Local Collector with one Remote Collector that pushes events to the Local Collector.

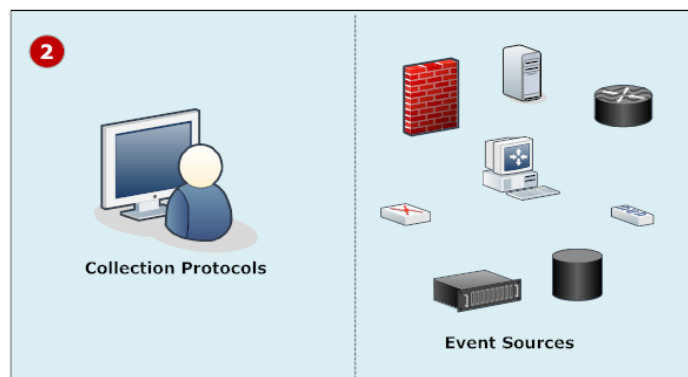


## 1

Set up Local and Remote Collectors.

The Local Collector is the Log Collector service running on the Log Decoder host.

A Remote Collector is the Log Collector service running on a virtual machine or Windows server in a remote location.



## 2


Configure event sources:

- Configure collection protocols
- Configure each event source to communicate with the NetWitness Platform Log Collector.

For details on these procedures, see [Configure Collection Protocols and Event Sources](#).

## Adding Local Collector and Remote Collector to NetWitness Platform



### To add a Local Collector and Remote Collector to NetWitness Platform:

1. Go to **ADMIN > Services**.
2. Click  and select **Log Collector** from the menu.  
The **Add Service** dialog box is displayed.
3. Define the details of the **Log Collection** service.
4. Select **Test Connection** to ensure that your Local or Remote Collector is added.

## Configuring Log Collection

You choose the Log Collector—that is a Local Collector (LC) or Remote Collector (RC)—for which you want to define parameters in the Services view. The following figure shows how to navigate to the Services view, select a Log Collector service, and display the configuration parameter interface for that service.

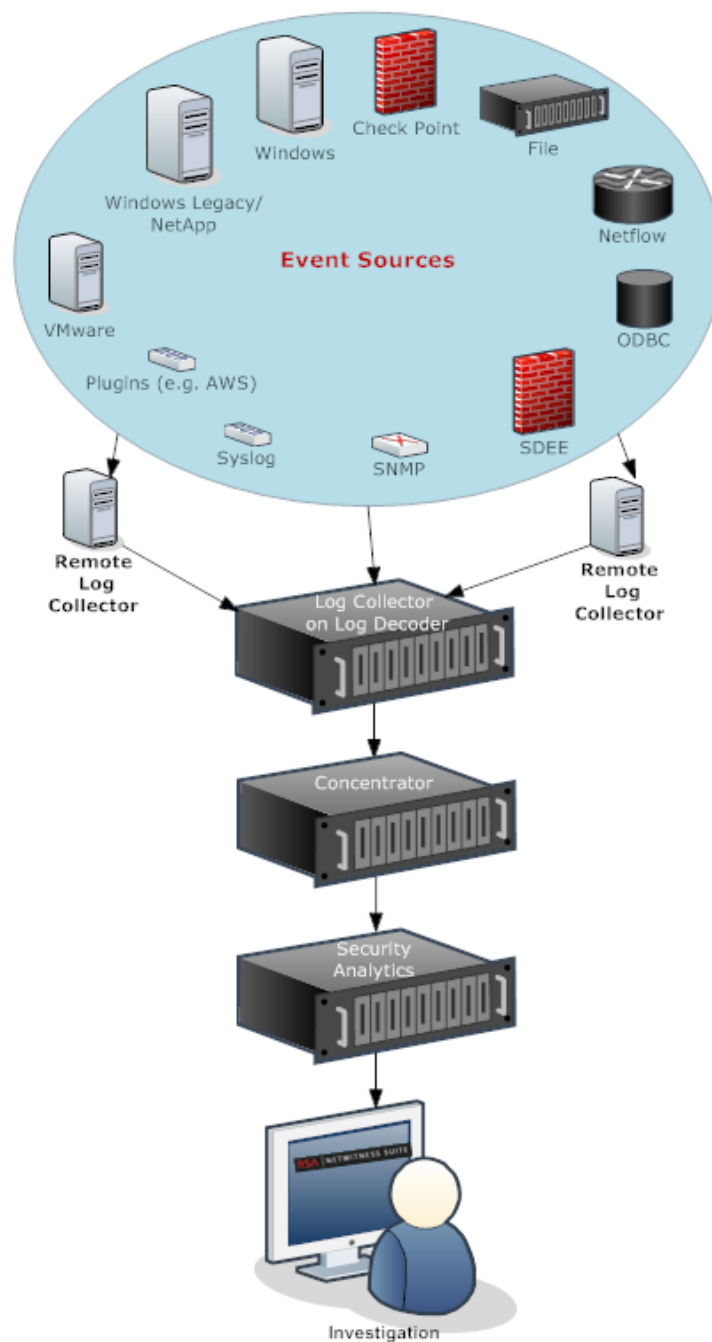
### To configure log collection:

1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Click   **View > Config** to display the Log Collection configuration parameter tabs.
4. Define global Log Collection parameters in the **General** tab.
5. The UI presents tabs, depending on whether the current service is Local or Remote.
  - For a Local Collector, NetWitness Platform displays the **Remote Collectors** tab. Select the Remote Collectors from which the Local Collector pulls events in this tab.
  - For a Remote Collector, NetWitness Platform displays the **Local Collectors**. Select the Local Collectors to which the Remote Collector pushes events in this tab.
6. Edit configuration files as text files in the **Files** tab.
7. Define collection protocol parameters in the **Event Sources** tab.
8. Define the lockbox, encryption keys, and certificates in the **Settings** tab.
9. Define Appliance Service parameters in the **Appliance Service Configuration** tab.

## Data Flow Diagram

You use the log data collected by the Log Collector service to monitor the health of your enterprise and to conduct investigations. The following figure shows you how data flows through NetWitness Platform Log Collection to Investigation.






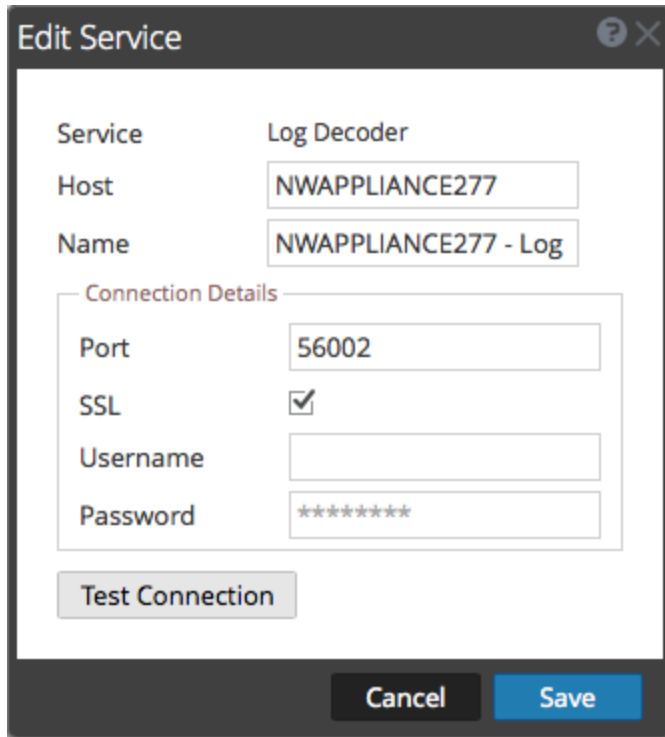
## Provision Local Collectors and Remote Collectors

The NetWitness Platform server verifies if an appliance has a Log Decoder service. If there is a Log Decoder service, it becomes a Local Collector. If a Log Decoder service is missing, it becomes a Remote Collector. A local Log Collector has an Event Destination and by default goes to the Local Log Decoder service. A Remote Collector does not have an Event Destination. The NetWitness Server identifies a Legacy Windows Collector as a Remote Collector.

**To edit a Local Collector or Remote Collector:**

1. Go to **ADMIN > Services**.
2. Select a Log Collector service.
3. In the **Services** view, select  in the toolbar.

The **Edit Service** dialog is displayed.



4. In the **Edit Service** dialog, provide the following information.

Field	Description
Service	Select Log Collector as the service type.
Host	Select a Log Decoder host.
Name	Type name you want to assign to the service.
Port	Default port is 50001 for clear text and 56001 for SSL encrypted.
SSL	Select <b>SSL</b> if you want NetWitness Platform to communicate with the host using SSL. The security of data transmission is managed by encrypting information and providing authentication with SSL certificates.
(Optional) Username	Type the username of the Local Collector.
(Optional) Password	Type the password of the Local Collector.

5. Click **Test Connection** to determine if NetWitness Platform connects to the service.

6. When the result is successful, click **Save**.

If the test is unsuccessful, edit the service information and retry.

## Configure Local and Remote Collectors

This topic describes how to configure Local and Remote Collectors.

When you deploy Log Collection, you must configure the Log Collectors to collect the log events from various event sources, and to deliver these events reliably and securely to the Log Decoder service, where the events are parsed and stored for subsequent analysis.

You can configure one or more Remote Collectors to push event data to a Local Collector, or you can configure a Local Collector to pull event data from one or more Remote Collectors.

This topic describes how to:

- **Configure Local Collector to Pull Events from Remote Collector**

If you want a Local Collector to pull events from Remote Collector, you set this up in the Remote Collectors tab of the Local Collector's Configuration view.

- **Configure Remote Collector to Push Events to Local Collectors**

If you want a Remote Collector to push events to a Local Collector, you set this up in the Local Collector tab of the Remote Collector's Configuration view. In the Push configuration, you can also:

- **Configure Failover Local Collector for Remote Collector**

You set up a destination made up of local collectors. When the primary Local Collector is unreachable, the Remote Collector attempts to connect to each Local Collector in this destination until it makes a successful connection.

- **Configure Replication**

You set up multiple destination groups so that NetWitness replicates the event data in each group. If the connection to one of the destination groups fails, you can recover the required data because it is replicated in the other destination group.

- **Configure Log Routing for Specific Protocols**

You set up multiple destinations in a destination group to direct event data to specific locations according to protocol type.

- **Configure Chain of Remote Collectors**

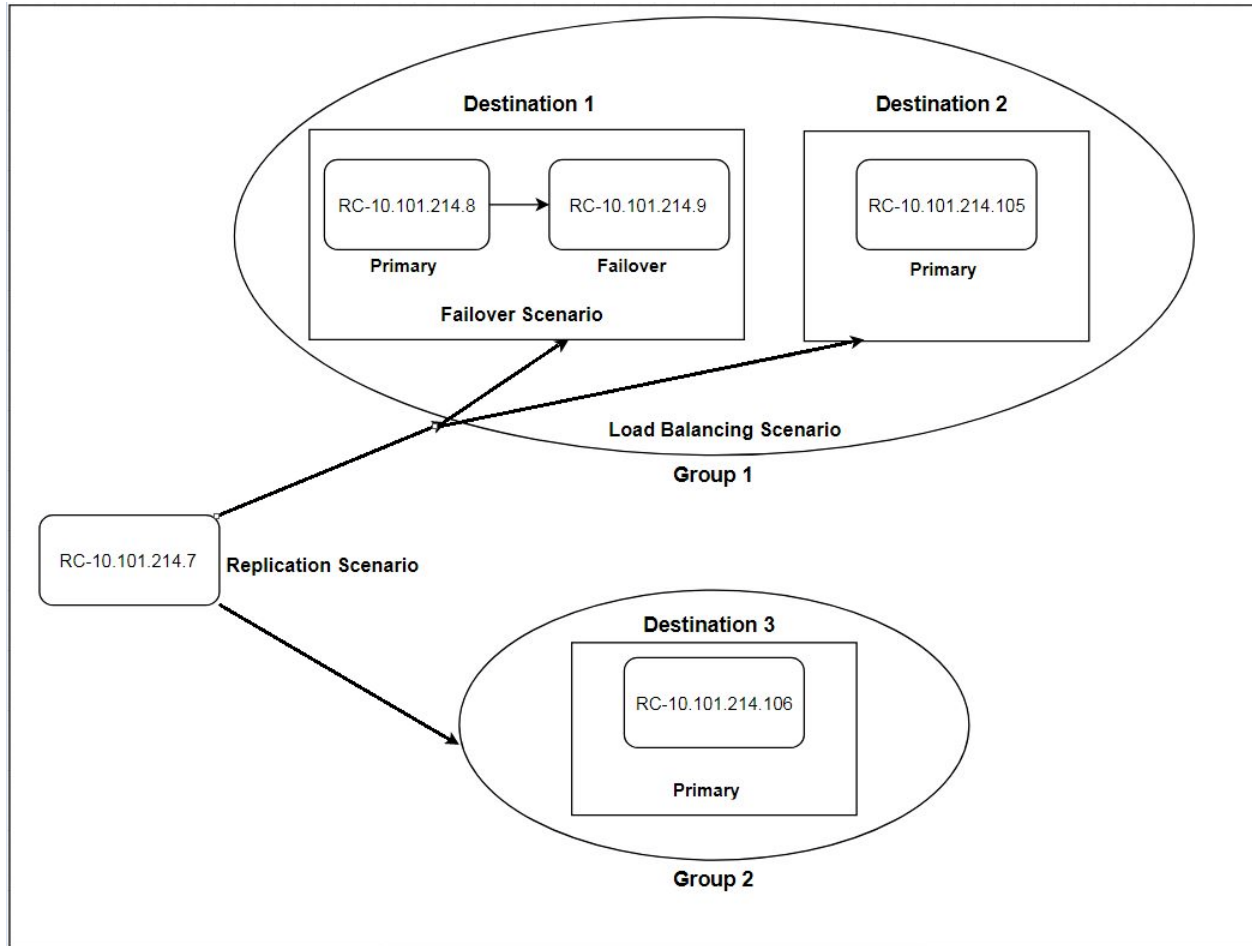
You can set up a chain of Remote Collectors to push event data to a Local Collector, or you can configure a Local Collector to pull event data from a chain of Remote Collectors.

- You can configure one or more Remote Collectors to push event data to a Remote Collector.
  - You can configure a Remote Collector to pull event data from one or more Remote Collectors.

## Failover, Replication and Load Balancing

This section describes failover, replication, and load balancing work in how RSA NetWitness Platform.

The following figure illustrates a Remote Collector configured for load balancing, failover and replication.



- **Failover** is achieved by setting up multiple collectors in the same Destination. Destination 1 has a primary Collector, and second, failover Collector. This is done in NetWitness Platform by adding multiple Log Collectors to the same Destination.

The screenshot shows the configuration window for Destination1. The fields are: Destination Name \* (Destination1), Group Name (Group1), and Collections (Windows Legacy). Under the "Log Collectors Addresses" section, there is a table with two rows of IP addresses: 10.101.214.8 and 10.101.214.9. The first row is highlighted, and the up arrow icon is visible, indicating the order of collectors.

Name *
10.101.214.8
10.101.214.9

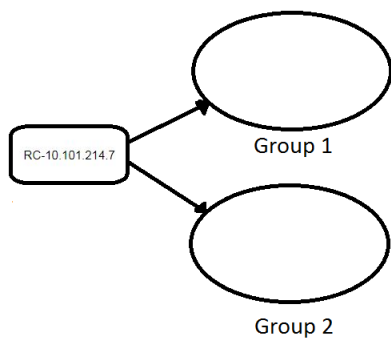
Buttons: Cancel, OK

Since 10.101.214.8 is listed first, that becomes the primary collector, and 10.101.214.9 becomes the failover. To make 10.101.214.9 the primary, use the up arrow to change the order.

Below, you can see the two collectors both listed for Destination 1. The primary (10.101.214.8) is in bold.

General	Local Collectors	Files	Event Sources	Settings								
Select Configuration: Destinations												
Destination Groups		Destination Collectors										
<div> <div>+</div> <div>-</div> </div> <table border="1"> <thead> <tr> <th>Name ^</th> </tr> </thead> <tbody> <tr> <td>Group1</td> </tr> </tbody> </table>		Name ^	Group1	<div> <div>+</div> <div>-</div> <div>✎</div> </div> <table border="1"> <thead> <tr> <th>Destination Name ^</th> <th>Address</th> <th>Collections</th> </tr> </thead> <tbody> <tr> <td>Destination1</td> <td>10.101.214.8, 10.101.214.9</td> <td>windowslegacy</td> </tr> </tbody> </table>			Destination Name ^	Address	Collections	Destination1	10.101.214.8, 10.101.214.9	windowslegacy
Name ^												
Group1												
Destination Name ^	Address	Collections										
Destination1	10.101.214.8, 10.101.214.9	windowslegacy										

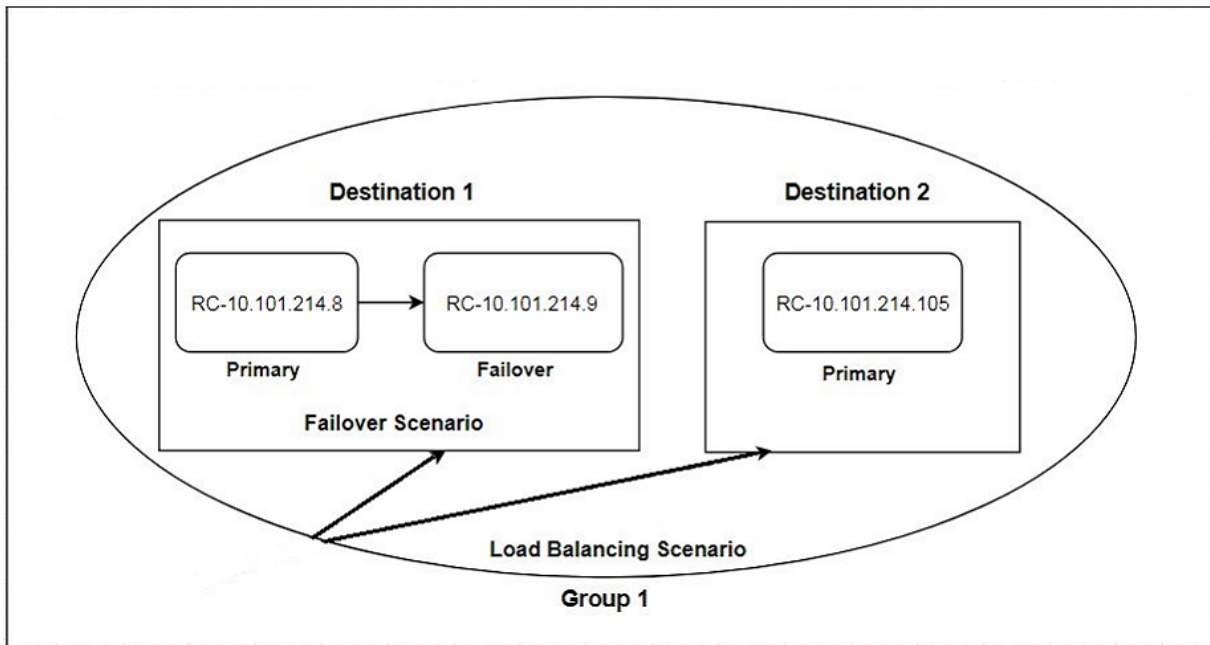
- **Replication** is accomplished by having multiple Destination Groups: each group receive the entire set of message data.



In the following screen, you can see that message data is sent to the collectors in Group 1 *and* Group 2.

General	Local Collectors	Files	Event Sources	Settings									
Select Configuration: Destinations													
Destination Groups		Destination Collectors											
<div> <div>+</div> <div>-</div> </div> <table border="1"> <thead> <tr> <th>Name ^</th> </tr> </thead> <tbody> <tr> <td>Group1</td> </tr> <tr> <td>Group2</td> </tr> </tbody> </table>		Name ^	Group1	Group2	<div> <div>+</div> <div>-</div> <div>✎</div> </div> <table border="1"> <thead> <tr> <th>Destination Name ^</th> <th>Address</th> <th>Collections</th> </tr> </thead> <tbody> <tr> <td>Destination3</td> <td>10.101.214.106</td> <td>windowslegacy</td> </tr> </tbody> </table>			Destination Name ^	Address	Collections	Destination3	10.101.214.106	windowslegacy
Name ^													
Group1													
Group2													
Destination Name ^	Address	Collections											
Destination3	10.101.214.106	windowslegacy											

- **Load balancing** is achieved by setting up multiple Destinations within a Group.



In the following screen, you can see that Group 1 has two destinations, Destination 1 and Destination 2. The message data is divided up equally among the Destinations in the group.

General Local Collectors Files Event Sources Settings				
Select Configuration: Destinations				
Destination Groups		Destination Collectors		
+ -		+ - ✕		
<input checked="" type="checkbox"/>	Name ^	<input type="checkbox"/>	Destination Name ^	Address
<input checked="" type="checkbox"/>	Group1	<input type="checkbox"/>	Destination1	10.101.214.8, 10.101.214.9
		<input type="checkbox"/>	Destination2	10.101.214.105
				collections
				windowslegacy
				windowslegacy

With two Destinations, each destination receives half the message data. With three Destinations, each would receive 1/3 of the total message data. Keep adding Destinations to further reduce the load on the collectors in each destination.


**Note:** You can also set up log routing so that event data for specific protocols is sent to specific destinations.

### Configure a Local Collector or Remote Collector

You choose the Log Collector, that is a Local Collector (LC) or Remote Collector (RC), for which you want to define deployment parameters in the Services view. The following procedure shows you how to navigate to the Services view, select a Local or Remote Collector, and display the deployment parameter interface for that service.

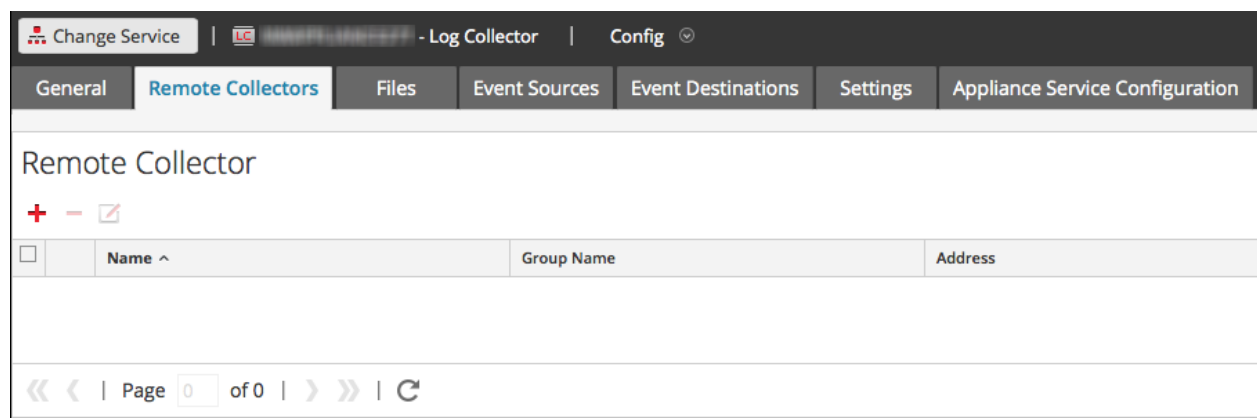
#### To configure a Local Collector or Remote Collector:

1. Go to **ADMIN > Services**.
2. Select a Local or Remote Log Collection service.

3. Under Actions, select  > **View** > **Config** to display the Log Collection configuration parameter tabs.
4. Depending on your selection in step 2:
  - If you selected a Local Collector, the **Remote Collectors** tab is displayed. Select the Remote Collectors from which the Local Collector pulls events in this tab.
  - If you selected a Remote Collector, the **Local Collectors** are displayed. Select the Local Collectors to which the Remote Collector pushes events in this tab.

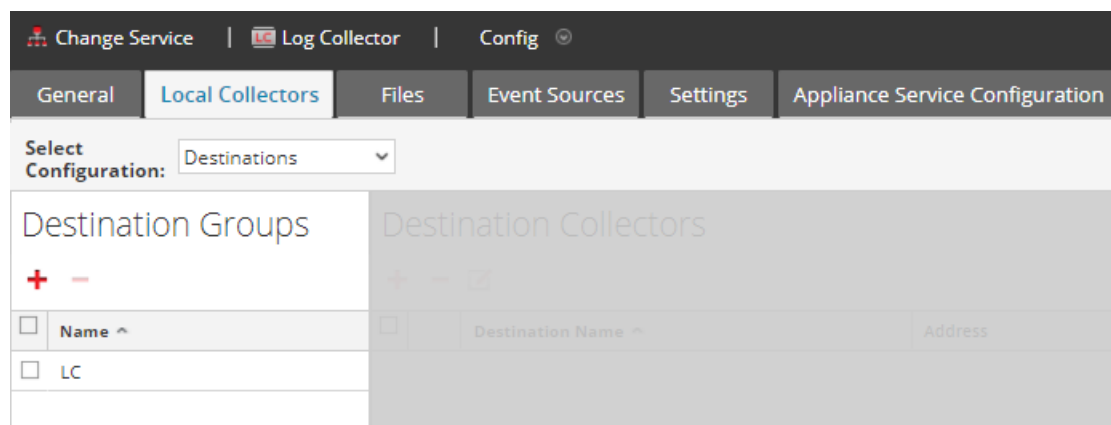
### Remote Collectors Tab

The following figure depicts the **Remote Collectors** tab for a Local Collector that is configured to pull events from a Remote Collector. NetWitness Platform displays this tab when you have selected a Local Collector in **Admin > Services**.

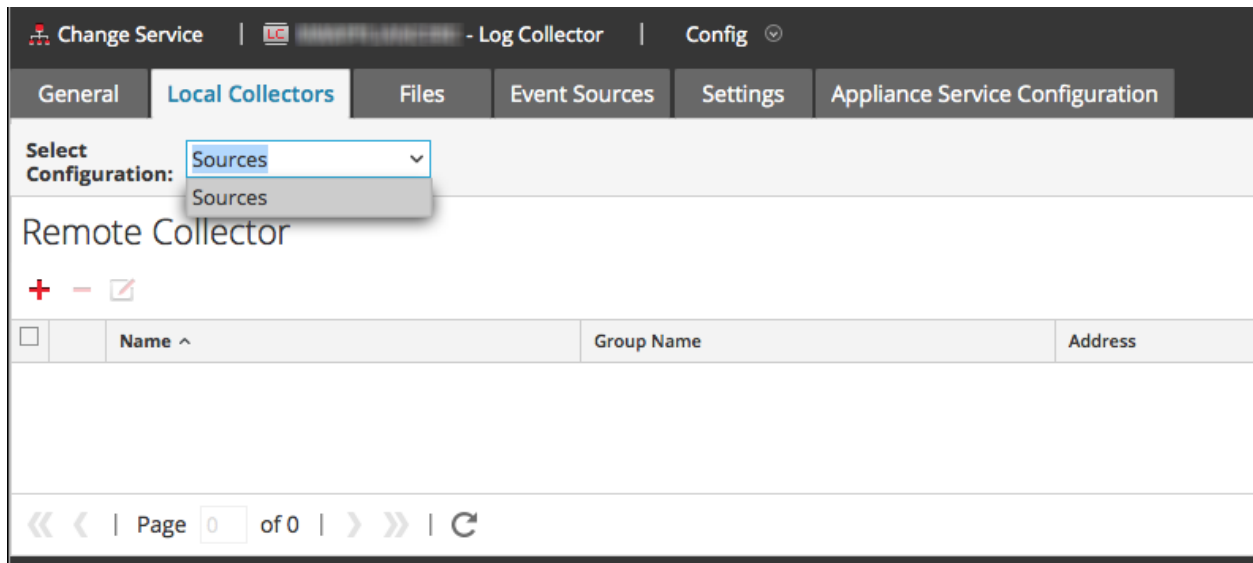


### Local Collectors Tab for a Remote Collector

The following figure depicts a **Local Collectors** tab for a Remote Collector that is configured to push events to a Local Collector or another Remote Collector.



The following figure depicts the Local Collectors tab for a Remote Collector that is configured to pull events from a Remote Collector. NetWitness Platform displays this tab when you have selected a Remote Collector in **Admin > Services**.



## Parameters




### [Remote/Local Collectors Configuration Parameters](#)

## Configure Failover Local Collector

This topic tells you how to set up a Failover Local or Remote Collector.





### Set up a Failover Local Collector

You can set up a Failover Local Collector that RSA NetWitness® Platform will fail over to if your primary Local Collector stops operating for any reason.

1. Go to **ADMIN > Services**.
2. In **Services**, select a Remote Collector service.
3. Click  **View > Config**.  
The Service Config view is displayed with the **Log Collector General** tab open.
4. Select the **Local Collectors** tab.
5. In the **Destination Groups** panel section, select .  
The Add Remote Destination dialog displays.
6. Set up a Destination Group and select a primary Local Collector (for example, **LC-PRIMARY**).
7. Select the Group (for example, **Primary\_Standby\_LCs**) in the Destination Groups panel and click .  
The Group you selected is displayed in the Local Collectors panel.
8. Add the Failover Local Collector (for example, **LC-STANDBY**).

The following examples show the newly added primary and failover Local Collectors showing the primary Local Collector as **Active** and the Failover Local Collector as **Standby**. The active Local Collector is highlighted (for example, **LC-PRIMARY**).





9. (Optional) Add, delete, and change the order of Local Collectors to each Remote Destination.
  - a. Click  to add a Log Collector as a failover Remote Destination.
  - b. When connecting to a Remote Destination, the Remote Collector will attempt to connect to each Local Collector in this list in order, until it makes a successful connection.
  - c. Select a Local Collector and use the up () and down () arrow buttons to change the order of connection.
  - d. Select one or more Local Collectors and click  to remove them from the list.


The selected Local Collectors are added to the Log Collector section. When the Remote Collector starts collecting data, it pushes data to these Log Collectors.

### Set up a Failover Remote Collector

You can set up a Failover Remote Collector that RSA NetWitness® Platform will fail over to if your primary Remote Collector stops operating for any reason.

#### To set up a failover remote collector:

1. Go to **ADMIN > Services**.
2. In **Services**, select a Remote Collector service.
3. Click   **View > Config**.

The Service Config view is displayed with the **Log Collector General** tab open.
4. Select the **Local Collectors** tab.
5. Select **Sources** in **Select Configuration** drop-down menu.
6. Click  to display in **Add Source** dialog.
7. Define the failover Remote Collector and click **OK**.

### Parameters



[Remote/Local Collectors Configuration Parameters](#)

### Configure Replication

This topic tells you how to replicate event data sent by a Remote Collector.

You can specify multiple Destination Groups so that the event data is replicated to each group.

#### To replicate event data to multiple Local Collectors:

1. Go to **ADMIN > Services**.
2. Select a Remote Log Collection service.
3. Under Actions, select   **> View > Config**.

The Service Config view is displayed with the **Log Collector General** tab open.
4. Select the **Local Collectors** tab.

5. In the **Destination Groups** panel section, click **+**.  
The **Add Remote Destination** dialog is displayed.

**Add Remote Destination**

Destination Name \*

Group Name

Collections

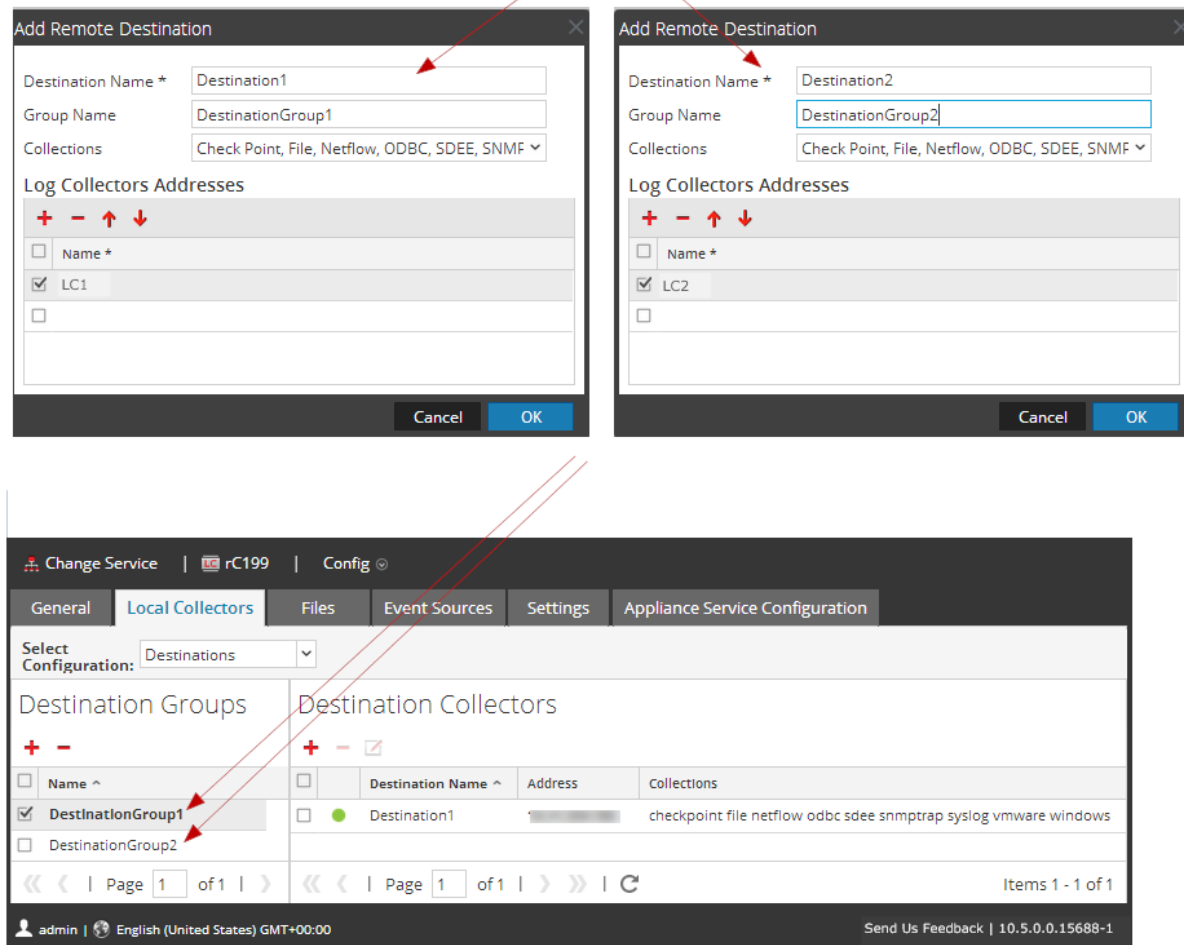
**Log Collectors Addresses**

**+** **-** **↑** **↓**

<input type="checkbox"/>	Name *
<input checked="" type="checkbox"/>	LC1
<input type="checkbox"/>	

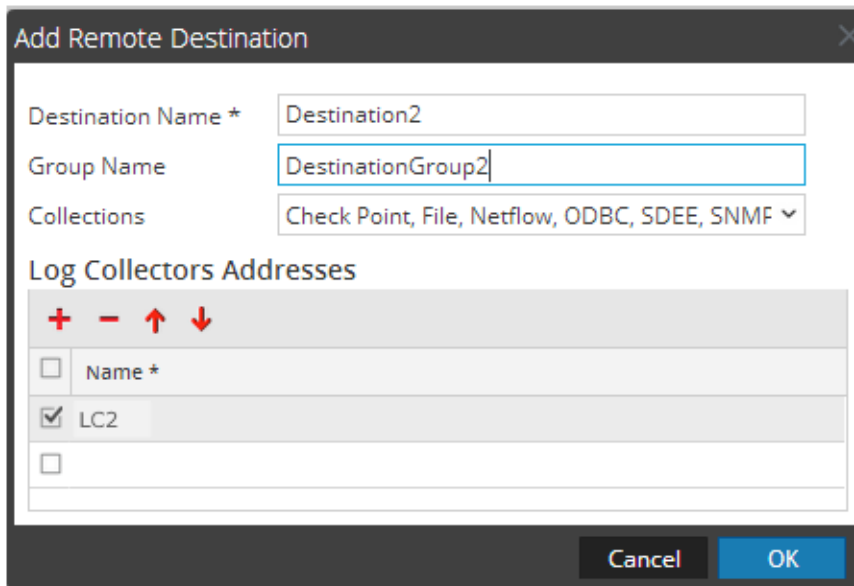
**Cancel** **OK**

6. Set up a separate Destination for each Local Collector and designate the protocols for which you want to push event messages to that Local Collector. The following examples shows the addition of two Destination Local Collectors (**Destination1** and **Destination2**) for the **Check Point**, **File**, **Netflow**, **ODBC**, **SDEE**, **SNMP**, **Syslog**, and **Windows** collection protocols:



- a. Type the **Destination Name**.
- b. Type the **Group Name**. If you do not type a Group Name, the Destination Name is taken as the Group Name.
- c. Select the collection protocols in the drop-down list.
- d. Select a Local Collector (for example, **LC1**).
- e. Click **OK**.
- f. Select the new group (for example, **DestinationGroup2**) group in the **Destination Groups** panel and click **+** in the **Local Collector** panel.
- g. In the **Local Collector** panel, click **+** and complete the **Add Remote Destination** dialog as

illustrated in the following figure.

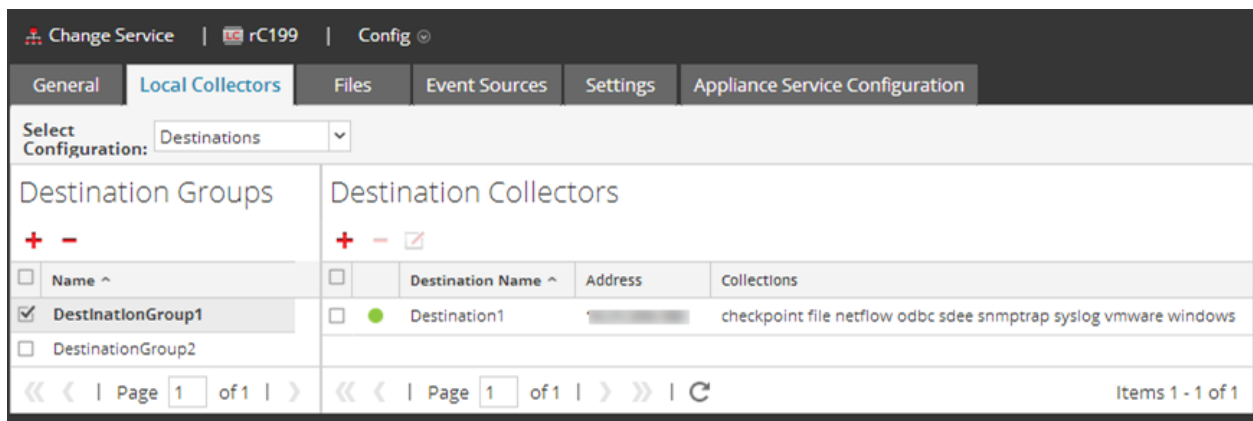


The 'Add Remote Destination' dialog box contains the following fields and controls:

- Destination Name \***: Text input field with 'Destination2'.
- Group Name**: Text input field with 'DestinationGroup2'.
- Collections**: Dropdown menu showing 'Check Point, File, Netflow, ODBC, SDEE, SNMF'.
- Log Collectors Addresses**: A section with a header and a list of log collectors.
  - Buttons: +, -, ↑, ↓
  - Table:
 

<input type="checkbox"/>	Name *
<input checked="" type="checkbox"/>	LC2
<input type="checkbox"/>	
- Buttons**: 'Cancel' and 'OK' at the bottom right.

The **Check Point**, **File**, **Netflow**, **ODBC**, **SDEE**, **SNMP**, **Syslog**, and **Windows** collection protocols are sent to two Local Collectors (**LC1** and **LC2**). Both Local Collectors are active and collecting event data.



The configuration page shows the 'Local Collectors' tab selected. It includes a 'Select Configuration' dropdown set to 'Destinations'.

Destination Groups		Destination Collectors		
<input type="checkbox"/>	Name ^	<input type="checkbox"/>	Destination Name ^	Address
<input checked="" type="checkbox"/>	DestinationGroup1	<input type="checkbox"/>	Destination1	checkpoint file netflow odbc sdee snmptrap syslog vmware windows
<input type="checkbox"/>	DestinationGroup2			

Navigation controls at the bottom show 'Page 1 of 1' and 'Items 1 - 1 of 1'.


## Configure Chain of Remote Collectors

This topic describes how to chain Remote Collectors (also referred to as VLCs).



You can set up a chain of Remote Collectors to push event data to a Remote Collector, or you can configure a Remote Collector to pull event data from a chain of Remote Collectors.

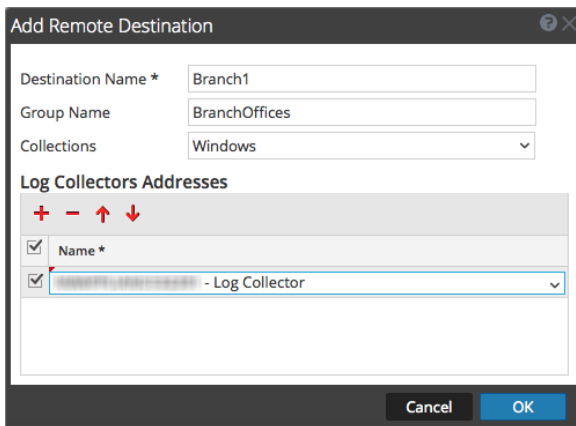
- **Remote Collectors to push data.** Push data from a Remote Collector to other Remote Collectors or Local Collectors.
- **Remote Collector to pull data.** Use a Remote Collector to pull data from one or more Remote Collectors.

### Configure Remote Collector to Push Event Data to Remote Collector

1. Go to **ADMIN > Services**.
2. In **Services**, select a **Remote Collector**.
3. Under **Actions**, select  > **View > Config** to display the Log Collection configuration parameter tabs.


The **Log Collector Service Config** view is displayed with the **Log Collector General** tab open.

4. Select the **Local Collectors** tab.
5. Select **Destinations** in the **Select Configurations** drop-down menu.
6. In the **Destination Groups** panel section, select  .  
The **Add Remote Destination** dialog is displayed.
7. Set up a **Destination Group**:
  - a. Enter a **Destination Name**.
  - b. (Optional) Enter a **Group Name**. If you leave Group Name blank, NetWitness Platform sets it to the value that you specified in Destination Name.
  - c. Select one or more collection protocols in the **Collections** drop-down list.
  - d. Under **Log Collectors Addresses**, click  to select a Remote Collector.



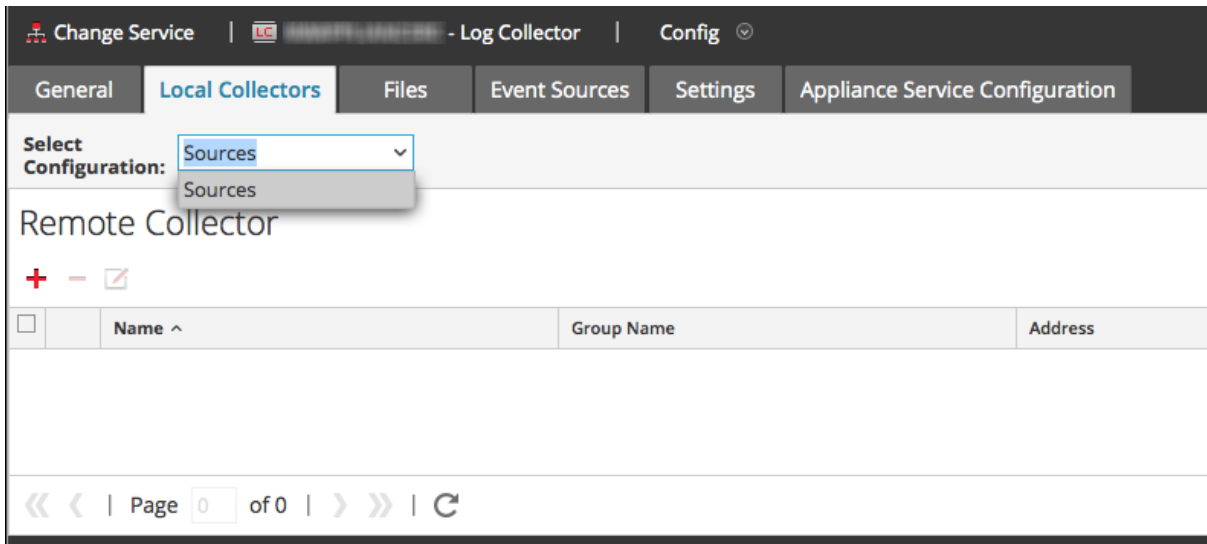
**Note:** If you do not select a collection protocol, the Remote Collector pushes all collection protocols to the Remote Collectors.

### Configure Remote Collector to Pull Event Data from a Remote Collector

1. Go to **ADMIN > Services**.
2. In **Services**, select a **Remote Collector**.
3. Under **Actions**, select  > **View > Config** to display the Log Collection configuration parameter tabs.

The **Service Config** view is displayed with the **Log Collector General** tab open.

4. Select the **Local Collectors** tab.
5. Select **Sources** in the **Select Configurations** drop-down menu.



6. In the **Remote Collectors** panel, select **+**.  
The **Add Source** dialog is displayed.
7. In the **Add Source** dialog:
  - a. Select one or more collection protocols.  
If you do not select a collection protocol, the Remote Collector pulls all collection protocols from the Remote Collector.
  - b. Click **OK**.  
The Remote Collector is added to the Remote Collector section. When the Log Collector starts collecting data, it pulls event data from this Remote Collector.

## Throttle Remote Collector to Local Collector Bandwidth

To improve performance, you can throttle the bandwidth to control the rate that the Remote Collector sends event data to Local Collector or between Message Brokers. To do this, you configure the Linux kernel's filtering and IPTable functionality.

This works for both push and pull Remote Collector configurations. The **set-shovel-transfer-limit.sh** shell script located on the **/opt/netwitness/bin** automates the configuration of the kernel filter and iptables related to this port.

This topic describes how to throttle Remote Collector to Local Collector bandwidth using the **set-shovel-transfer-limit.sh** shell script. It contains the following sections:

- The **set-shovel-transfer-limit.sh** shell script command line help.

**Note:** The filter value that you need to set depends on the rate at which remote log collector is sending events to the Local Collector.

- An example that sets the Filter to 4096 kilobits per second.

## Command Line Help for Set Shovel Transfer Limit Script

Issue the `-h` command to display help for `set-shovel-transfer-limit.sh` shell script.

```
cd /opt/netwitness/bin
./set-shovel-transfer-limit.sh
```

Usage:

```
code>set-shovel-transfer-limit.sh -s|-c|-d|[-i interface] [-r rate]
```

where:

- `-c` = clear existing
- `-d` = display filter
- `-s` = set new values
- `-i` = interface is the name of the network interface. Default value is **eth0**
- `-r` = rate is the bandwidth rate. Default value is **256kbps**

Bandwidths and rates can be specified in:

- **nolimit**: disables throttling
- **kbit**: Kilobits per second
- **mbit**: Megabits per second
- **kbps**: Kilobytes per second
- **mbps**: Megabytes per second
- **bps**: Bytes per second

## Set the Filter to 4096 Kilobits per Second

This example sets the Filter to 4096 kilobits per second.

```
[root@<hostname> bin]#./set-shovel-transfer-limit.sh -s -r 4096kbit
```

```
RATE=4096kbit
PORTNUMBER=5671
DEVICE_INTERFACE=eth0
```

```
iptables: No chain/target/match by that name.
```

```
iptables: No chain/target/match by that name.
```

```
iptables: Saving firewall rules to /etc/sysconfig/iptables:[ OK ]
```

Current/new values...

```
iptables -t mangle -n -v -L
Chain PREROUTING (policy ACCEPT 2 packets, 161 bytes)
 pkts bytes target  prot opt in  out   source      destination
Chain INPUT (policy ACCEPT 2 packets, 161 bytes)
 pkts bytes target  prot opt in  out   source      destination
Chain FORWARD (policy ACCEPT 0 packets, 0 bytes)
 pkts bytes target  prot opt in  out   source      destination
```

```
Chain OUTPUT (policy ACCEPT 2 packets, 248 bytes)
  pkts bytes target prot opt in out source destination
    0    0 MARK  tcp  --  *   eth0  0.0.0.0/0  0.0.0.0/0  multiport
dports 5671 MARK set 0xa
    0    0 MARK  tcp  --  *   eth0  0.0.0.0/0  0.0.0.0/0  multiport
sports 5671 MARK set 0xa

Chain POSTROUTING (policy ACCEPT 2 packets, 248 bytes)
  pkts bytes target prot opt in out source destination

tc -s -d class show dev eth0
  class htb 1:1 root rate 10000Kbit ceil 10000Kbit burst 1600b/8 mpu 0b
overhead 0b cburst 1600b/8 mpu 0b overhead 0b level 7
  Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0)
  rate 0bit 0pps backlog 0b 0p requeues 0
  lended: 0 borrowed: 0 giants: 0
  tokens: 20000 ctokens: 20000

class htb 1:2 parent 1:1 prio 0 quantum 51200 rate 4096Kbit ceil 4096Kbit
burst 1599b/8 mpu 0b overhead 0b cburst 1599b/8 mpu 0b overhead 0b level 0
  Sent 0 bytes 0 pkt (dropped 0, overlimits 0 requeues 0)
  rate 0bit 0pps backlog 0b 0p requeues 0
  lended: 0 borrowed: 0 giants: 0
  tokens: 48828 ctokens: 48828
```

## Set Up a Lockbox

### What Is a Lockbox

A lockbox is an encrypted file that you use to store confidential information about an application. The NetWitness Platform Lockbox stores an encryption key for the Log Collector.

The encryption key is used to encrypt all event source passwords and the event broker password.

When you create the Lockbox, you need to define a password for the Lockbox.

The Log Collector operates the Lockbox in a mode during data collection that does not require you to specify the password (the Log Collector uses the host system fingerprint instead).

These are the lockbox security settings.

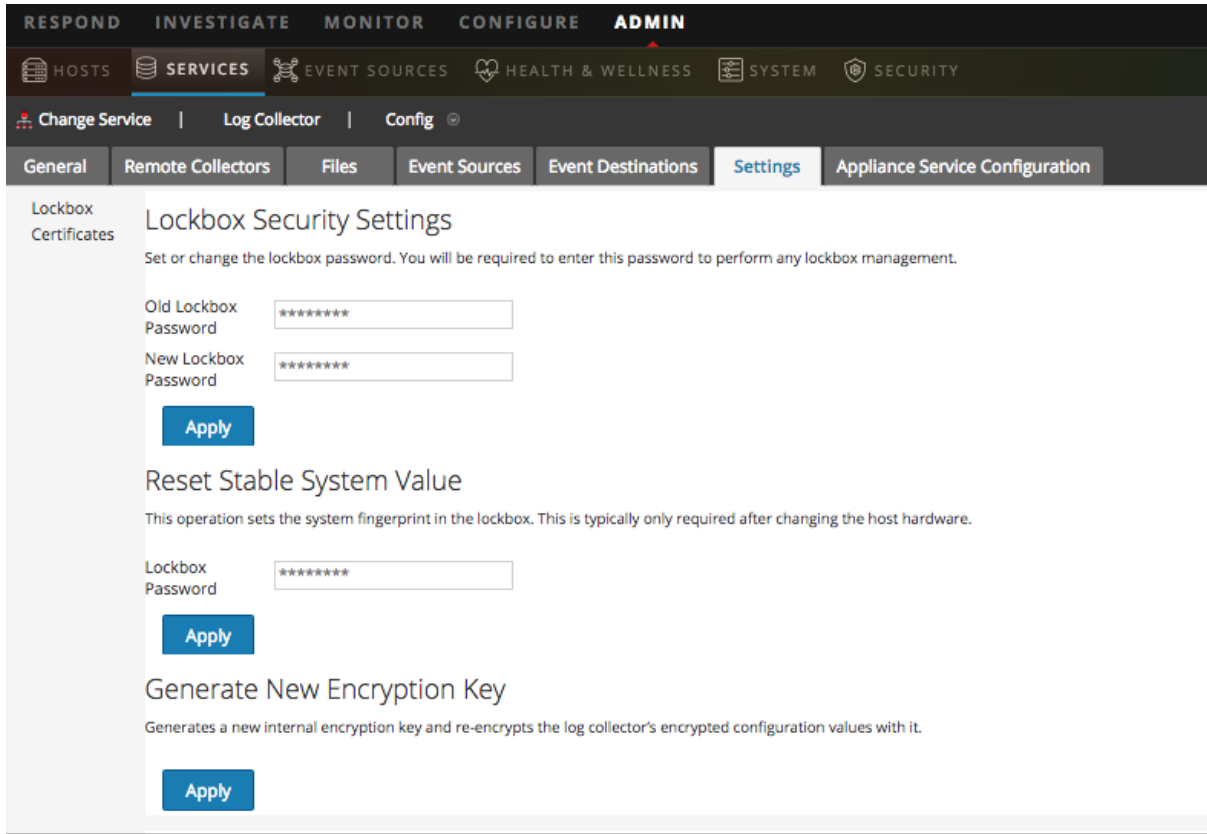
Feature	Description
Old Lockbox Password	When you set up a Lockbox for the first time, this field is blank. NetWitness Platform populates this field after you enter a New Lockbox Password and click Apply.
New Lockbox Password	Initial or new lockbox password. To maximize lockbox security, specify a password that is eight or more characters in length with at least one numeric character, uppercase character, and non-alphanumeric character such as # or !
Apply	Click <b>Apply</b> to save the changes to the lockbox password.

### Set Up a Lockbox

To set up a lockbox you need to set a password, as follows:



1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Settings** tab.




The screenshot shows the Splunk web interface. At the top, there's a navigation bar with tabs: RESPOND, INVESTIGATE, MONITOR, CONFIGURE, and ADMIN. Below this is a sub-navigation bar with icons and labels for HOSTS, SERVICES, EVENT SOURCES, HEALTH & WELLNESS, SYSTEM, and SECURITY. The SERVICES tab is active. Below the sub-navigation bar, there's a breadcrumb trail: Change Service | Log Collector | Config. The Config tab is active, and it has several sub-tabs: General, Remote Collectors, Files, Event Sources, Event Destinations, Settings (which is highlighted), and Appliance Service Configuration. The main content area is titled 'Lockbox Security Settings'. It contains three sections: 1. 'Set or change the lockbox password. You will be required to enter this password to perform any lockbox management.' with fields for 'Old Lockbox Password' and 'New Lockbox Password', both masked with asterisks, and an 'Apply' button. 2. 'Reset Stable System Value' with a description 'This operation sets the system fingerprint in the lockbox. This is typically only required after changing the host hardware.' and a 'Lockbox Password' field masked with asterisks, followed by an 'Apply' button. 3. 'Generate New Encryption Key' with a description 'Generates a new internal encryption key and re-encrypts the log collector's encrypted configuration values with it.' and an 'Apply' button.

5. In the options panel, select **Lockbox** to configure Lockbox settings.
6. Under **Lockbox Security Settings**, enter a password in the **New Lockbox Password** field and click **Apply**.

## Start Collection Services


If a collection service stops, you may need to start it again. You can also enable the automatic start of collection services.

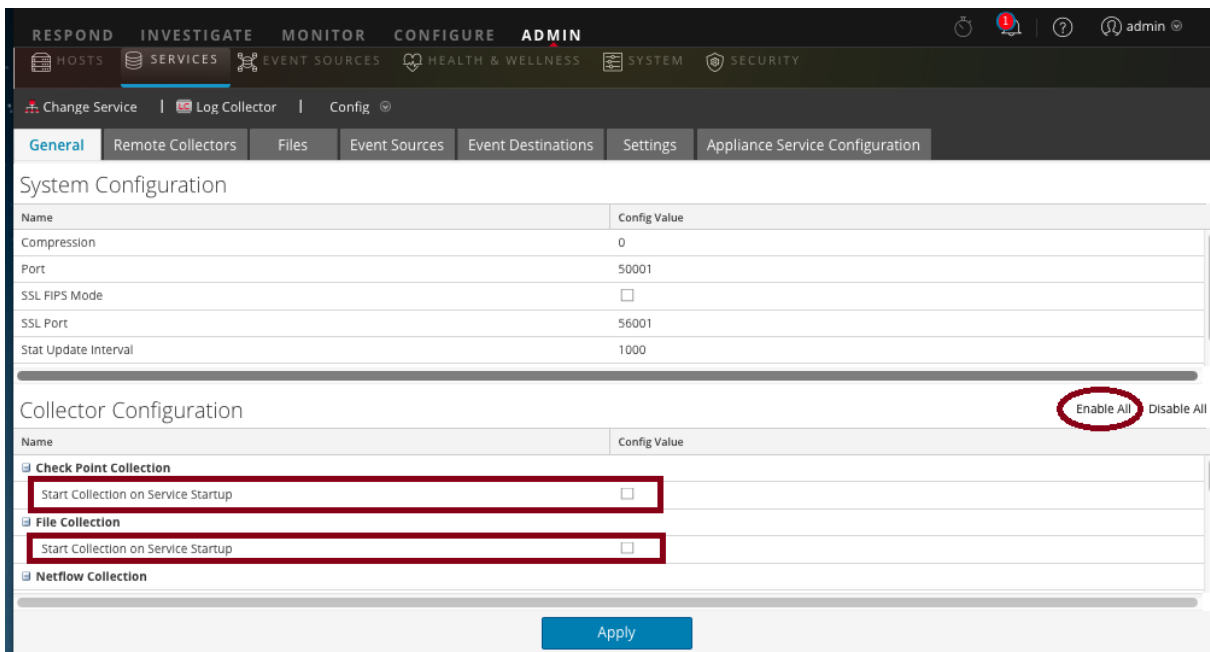
### Start a Collection Service

1. Go to **ADMIN > Services**.
2. Select a Log Collector service and click  under **Actions**.

3. Click **View > System**.
4. Click **Collection > service** (for example **File**) and click **Start**.

## Enable Automatic Start of Collection Services

1. Go to **Admin > Services**.
2. Select a Log Collector service and click  under **Actions**.
3. Click **View > Config**.  
The General tab is displayed.
4. In the Collector Configuration panel, select **Start Collection on Service Startup** for the individual collection services that you want to start automatically. Alternatively, select **Enable All** to automatically start all collection services.



The screenshot shows the 'Log Collector' configuration page in the 'ADMIN' section. Under the 'Log Collector' tab, the 'Config' sub-tab is active. The 'General' sub-tab is selected, showing 'System Configuration' and 'Collector Configuration' sections. In the 'Collector Configuration' section, three services are listed: 'Check Point Collection', 'File Collection', and 'Netflow Collection'. Each service has a 'Start Collection on Service Startup' checkbox, which is checked and highlighted with a red box. At the top right of the 'Collector Configuration' section, the 'Enable All' button is circled in red.

5. Click **Apply** for your changes to take effect.

## Verify That Log Collection Is Working

This topic tells you how to verify that you have set up Log Collection correctly.

The following methods verify that Log Collection is working.

- Verify that there is event activity the Event Source Monitoring tab of the **Administration > Health & Wellness** view.
- Verify that there are parsers in the **device.type** field in the **Details** column in the **Investigation > Events** view for the collection protocol you configured.




Please refer to the topics for each Collection Protocol for steps on how to verify that the protocol is set up correctly.

## Configure Certificates

You manage certificates by creating trust stores on the Log Collector. The Log Collector refers to these trust stores to determine whether or not the event sources are trusted.




### Add a Certificate

#### To add a certificate:

1. Go to **ADMIN > Services**.
2. In the **Services** grid, select a **Log Collector** service.
3. Click   under **Actions** and select **View > Config**.
4. Click the **Settings** tab.
5. In the options panel, select **Certificates**.
6. Click  in the **Certificates** tool bar.  
The **Add Cert** dialog is displayed.
7. Click **Browse** and select a certificate (\*.PEM) from your network.
8. Specify a password (if required).
9. Click **Save**.

### Certificates Panel

The following table describe the buttons and columns available in the Certificates panel.

Field	Description
	Opens the Add Cert dialog in which you can add a certificate and password.
	Deletes the selected certificates.
	Selects certificates.
Trust Store Name	Displays the name of the trust store.
Certificate Distinguished Name	For Check Point event source only, displays the distinguished name for the certificate.
Certificate Password Name	For Check Point event source only, displays the password name for the certificate.

## Add Cert Dialog

The following table describes the parameters available in the **Add Cert** dialog.

Field	Description
Trust Store Name	Enter a trust store name.
File	Click Browse to select a certificate (*.PEM file) file from your network
Password	Specify the password for this certificate.
Close	Closes the dialog without adding a certificate.
Save	Adds the certificate.

# Log Collection Basics

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## How Log Collection Works

The Log Collector service collects logs from event sources throughout the IT environment in an organization and forwards the logs to other NetWitness Platform components. The logs and the descriptive content are stored as meta data for use in investigations and reports.

Event sources are the assets on the network, such as servers, switches, routers, storage arrays, operating systems, and firewalls. In most cases, your Information Technology (IT) team configures event sources to send their logs to the Log Collector service and the NetWitness Platform administrator configures the Log Collector service to poll event sources and retrieve their logs. As a result, the Log Collector receives all logs in their original form.

## Collection Protocols

RSA NetWitness Platform can collect logs from a wide variety of event sources. When you are configuring log collection for a specific event source, you need to know, first and foremost, the protocol that is used to collect the logs.

Collection Protocol	Description
Check Point	Collects events from Check Point event sources using OPSEC LEA. OPSEC LEA is the Check Point Operations Security Log Export API that facilitates the extraction of logs. For details, see <a href="#">Configure Check Point Event Sources in NetWitness Platform</a> .
File	Collects events from log files. Event sources generate log files that are transferred using a secure file transfer method to the Log Collector service. For details, see <a href="#">Configure File Event Sources in NetWitness Platform</a> .
Netflow	Accepts events from Netflow v5 and Netflow v9. For details, see <a href="#">Configure Netflow Event Sources in NetWitness Platform</a> .
ODBC	Collects events from event sources that store audit data in a database using the Open Database Connectivity (ODBC) software interface. For details, see <a href="#">Configure ODBC Event Sources in NetWitness Platform</a> .
Plugins	<p>The Plugins collection is a generic collection framework for collecting events using external scripts written in other languages. RSA currently provides collection for Amazon Web Services (AWS) CloudTrail and Microsoft Azure.</p> <ul style="list-style-type: none"><li>• <b>AWS:</b> Collects events from Amazon Web Services (AWS) CloudTrail. Specifically CloudTrail records AWS API calls for an account. For details, see <a href="#">Configure AWS (CloudTrail) Event Sources in NetWitness Platform</a></li><li>• <b>Azure:</b> Collects events from Microsoft Azure. For details, see <a href="#">Configure Azure Event Sources in NetWitness Platform</a>.</li></ul> <p>Customers can use this framework to develop their own collection protocols.</p>

Collection Protocol	Description
SDEE	Collects Intrusion Detection System (IDS) and Intrusion Prevention Service (IPS) messages. For details, see <a href="#">Configure SDEE Event Sources in NetWitness Platform</a> .
SNMP Trap	Accepts SNMP traps. For details, see <a href="#">Configure SNMP Event Sources in NetWitness Platform</a> .
Syslog	Accepts messages from event sources that issue syslog messages. For details, see <a href="#">Configure Syslog Event Sources for Remote Collector</a> .  <b>Note:</b> You do not configure Syslog Collection for Local Log Collectors. You only need to configure Syslog Collection for Remote Collectors.
VMware	Collects events from a VMware virtual infrastructure. For details, see <a href="#">Configure VMware Event Sources in NetWitness Platform</a> .
Windows	Collects events from Windows machines that support the Microsoft Windows model. Windows 6.0 is an event logging and tracing framework included in the operating system beginning with Microsoft Windows Vista and Windows Server 2008. For details, see <a href="#">Configure Windows Event Sources in NetWitness Platform</a> .
Windows Legacy	Collects events from: <ul style="list-style-type: none"> <li>Older Windows versions such as Windows 2000 and Windows 2003 and collects from Windows event sources that are already configured for enVision collection without having to reconfigure them.</li> <li>NetApp ONTAP appliance event source so that you can now collect and parse NetApp evt files.</li> <li>For more information, see <a href="#">Windows Legacy and NetApp Collection Configuration</a>.</li> </ul> <b>Note:</b> You install the NetWitness Platform Windows Legacy Collector on a physical or virtual Windows 2008 R2 SP1 64-Bit server using the <code>SALegacyWindowsCollector-version-number.exe</code> .

## Basic Procedure

The basic procedure is the same for all of the supported Collection Protocols.

### To configure collection for an event source:

1. **Set up your Event Source for collection.** Each supported event source has a configuration document available in the RSA Supported Event Sources space on RSA Link
  - a. Navigate to the [RSA Supported Event Sources](#) space on RSA Link.
  - b. Find the Instructions for your Event Source.

The Overview page lists all of the currently supported Event Sources, as well as information about the collection method, device class, and supported versions.


- c. Download the configuration instructions for your event source, and follow them.
2. **Configure collection on RSA NetWitness Platform.** The event source configuration guide contains these instructions. However, this guide also provides these instructions, based on the collection method used by your event source. See [Collection Protocols](#) for details.
3. **Start the Service for your Collection Method.** Normally, you only need to do this for the first event source that uses this collection method. For example, the first time you configure an event source that uses File Collection, you may need to start the File Service in NetWitness Platform.
4. **Verify that Collection is working for your Event Source.**

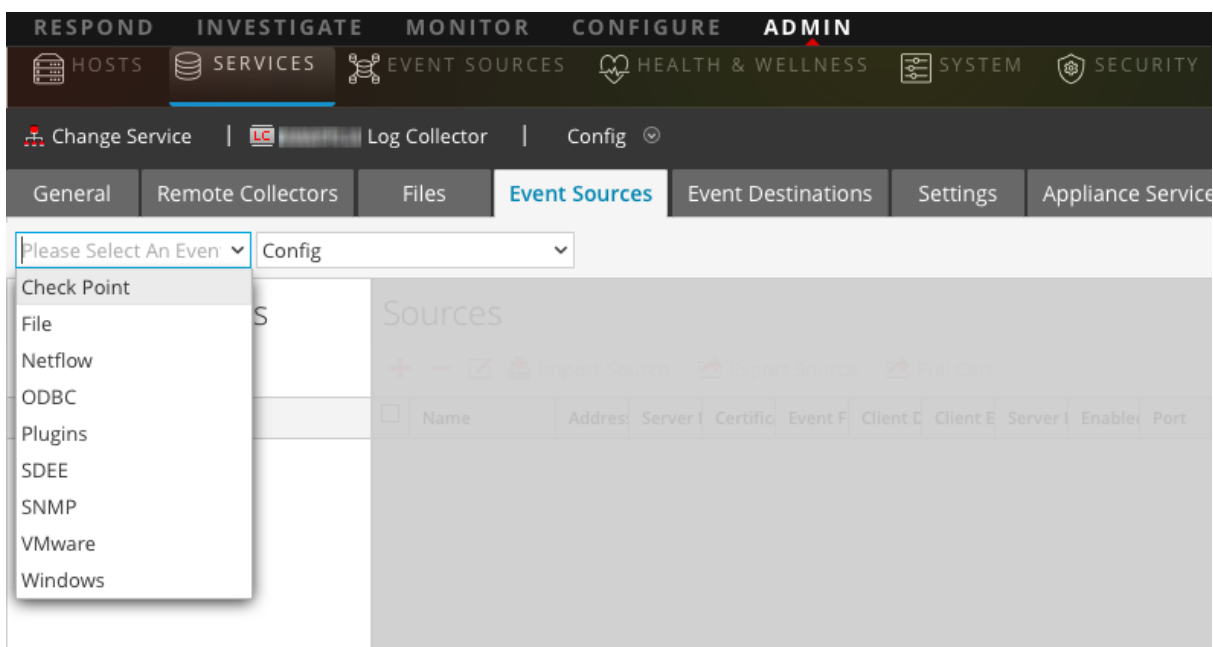
The remainder of this topic discusses steps 2, 3, and 4 in more detail.



## Configure Collection in RSA NetWitness Platform

The process to configure event sources is dependent upon the collection method they use. Note, however, that they are very similar. The following procedure is generic: more details for individual collection methods are available in topics that cover the details for each specific collection method.

### Basic procedure to configure an event source in RSA NetWitness Platform:



1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.



5. In the **Log Collector Event Sources** tab, select your collection method from the drop-down menu.
6. In the **Event Categories** panel toolbar, click .  
The Available Event Source Types dialog box is displayed.
7. Select an event source type and click **OK**.  
The newly added event source type is displayed in the Event Categories panel.
8. Select the new type in the **Event Categories** panel and click  in the Sources toolbar.  
The **Add Source** dialog is displayed.
9. Enter values for the available parameters.  
Refer to the Parameters section of the specific collection method that you are configuring.
10. Click **OK**.

## Start the Service for your Collection Method

### To start the service for your collection method:

1. Go to **Admin > Services**.
2. Select a **Log Collector** and select   > **View > System**.
3. Click **Collection > protocol > Start**  
where *protocol* is the protocol that you wish to start, for example **Netflow**.

## Verify that Collection is working for your Event Source

You can verify that a collection method is working from the **Admin > Health & Wellness > Event Source Monitoring** tab.

### To verify that collection is working for an event source:

1. Go to **ADMIN > Health & Wellness**
2. Click the **Event Source Monitoring** tab.
3. In the grid, find the **Log Decoder**, **Event Source**, and **Event Source Type**.
4. Look for activity in the **Count** column for an event source to verify that collection is accepting events.

## Configure Event Filters for a Collector


This topics tells you how to create and maintain Event filters across all collection protocols.

**Note:** You cannot configure Syslog Collection for Local Log Collectors. You only need to configure Syslog Collection for Remote Collectors. See [Configure Local and Remote Collectors](#) for additional configuration information.

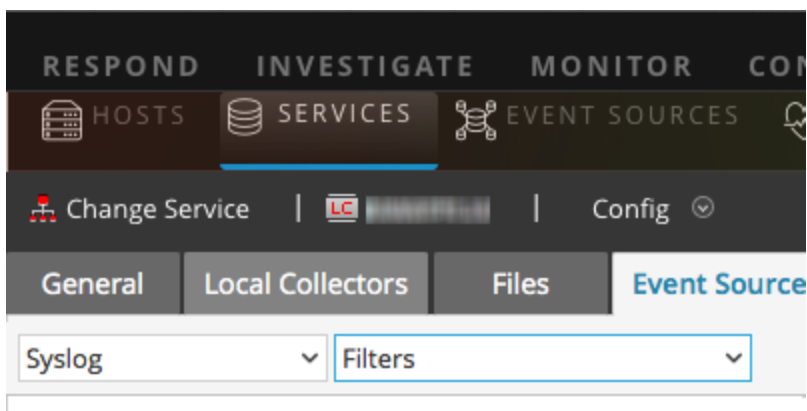


## Configure an Event Filter

To configure an event filter for an event source:

1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.
5. In the **Event Sources** tab, select any collection method / **Filter** from the drop-down menus.

The following screen shows **Syslog** selected.

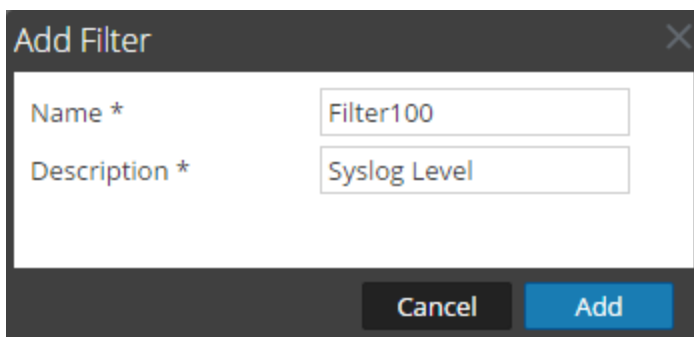


**Note:** Syslog configuration is only available on Remote Collectors: if you are working with a Local Collector service, **Syslog** is not available from the drop-down menu.

The **Filters** view displays the filters that are configured for the selected collection method, if any.

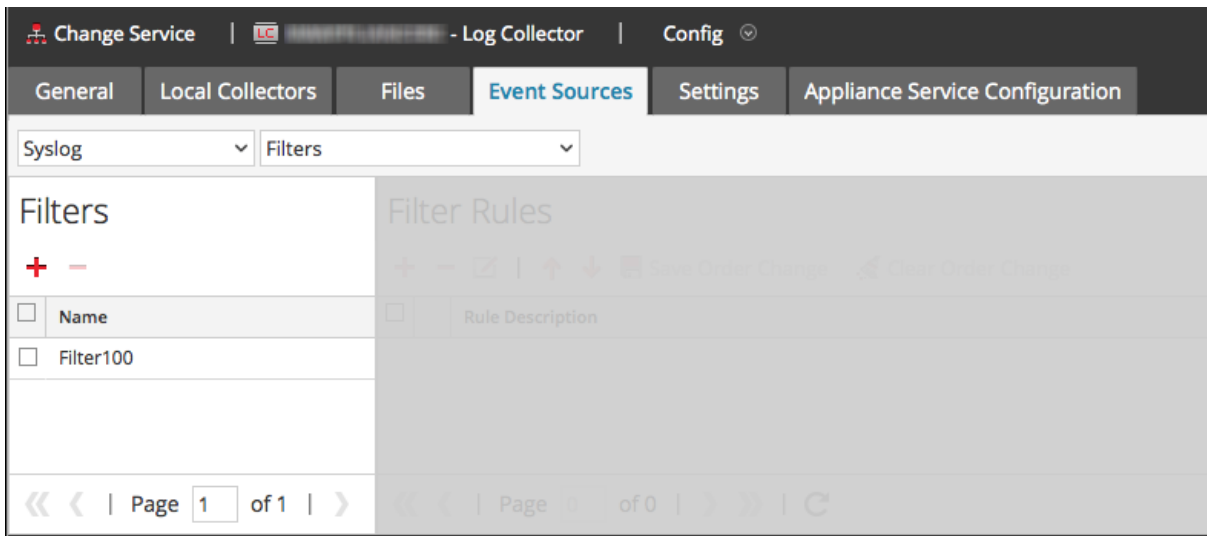
6. In the **Filters** panel toolbar, click .

The **Add Filter** dialog displays.



7. Enter a name and description for the new filter and click **Add**.

The new filter displays in the **Filter** panel.



8. Select the new filter in the **Filters** panel and click **+** in the **Filter Rules** panel toolbar. The **Add Filter Rule** dialog is displayed.
9. Click **+** under **Rule Conditions**.
10. Add the parameters for this rule and click **Update > OK**.

Add Filter Rule																									
Filter Name *		Filter100																							
Rule Description *		SyslogLevel100																							
Rule Conditions																									
<div> <span>+</span> <span>-</span> <span>↑</span> <span>↓</span> </div> <table border="1"> <thead> <tr> <th rowspan="2"><input checked="" type="checkbox"/></th> <th rowspan="2">Key *</th> <th rowspan="2">Operator *</th> <th rowspan="2">Use Regex</th> <th rowspan="2">Value</th> <th rowspan="2">Ignore Case</th> <th colspan="2">Action</th> </tr> <tr> <th>Match *</th> <th>No Match *</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>Syslog Level (syslog.level)</td> <td>Equals</td> <td><input checked="" type="checkbox"/></td> <td>1-2</td> <td><input type="checkbox"/></td> <td>Accept</td> <td>Drop</td> </tr> </tbody> </table>								<input checked="" type="checkbox"/>	Key *	Operator *	Use Regex	Value	Ignore Case	Action		Match *	No Match *	<input checked="" type="checkbox"/>	Syslog Level (syslog.level)	Equals	<input checked="" type="checkbox"/>	1-2	<input type="checkbox"/>	Accept	Drop
<input checked="" type="checkbox"/>	Key *	Operator *	Use Regex	Value	Ignore Case	Action																			
						Match *	No Match *																		
<input checked="" type="checkbox"/>	Syslog Level (syslog.level)	Equals	<input checked="" type="checkbox"/>	1-2	<input type="checkbox"/>	Accept	Drop																		
				Update		Cancel																			
						Cancel OK																			

NetWitness Platform updates the filter with the rule that you defined.

**Note:** Rules are processed in order from top down until an Action type aborts the processing, or the final rule is checked. Default behavior is to accept the rule if no matches are found.

The following tables describe the parameters for adding a filter rule.

### Event Filter Rule "Key" Parameter

The values for the Key field depend on the Collection method to which the filter applies.

Collection Method	Values for the <i>Key</i> Field
Checkpoint, File, Netflow, Plugin, SDEE SNMP and VMware	<ul style="list-style-type: none"><li>• All Data Fields</li><li>• Event Source Type</li><li>• Event Source Name</li><li>• Source IP</li><li>• Raw Event</li></ul>
ODBC	<ul style="list-style-type: none"><li>• All Data Fields</li><li>• Event Source Type</li><li>• Event Source Name</li><li>• Source IP</li><li>• Message ID</li><li>• Message Level</li></ul>
Syslog	<ul style="list-style-type: none"><li>• All Data Fields</li><li>• Event Source Type</li><li>• Event Source Name</li><li>• Source IP</li><li>• Syslog level</li><li>• Raw Event</li></ul>
Windows	<ul style="list-style-type: none"><li>• All Data Fields</li><li>• Event Source Type</li><li>• Event Source Name</li><li>• Source IP</li><li>• Event ID</li><li>• Provider</li><li>• Channel</li><li>• Computer</li><li>• UserName</li><li>• DomainName</li></ul>

Collection Method	Values for the <i>Key</i> Field
Windows Legacy	<ul style="list-style-type: none"> <li>• All Data Fields</li> <li>• Event Source Type</li> <li>• Event Source Name</li> <li>• Source IP</li> <li>• Event ID</li> </ul>

### Other Event Filter Rule Parameters

The following table describes all the other available fields for creating an event filter rule.

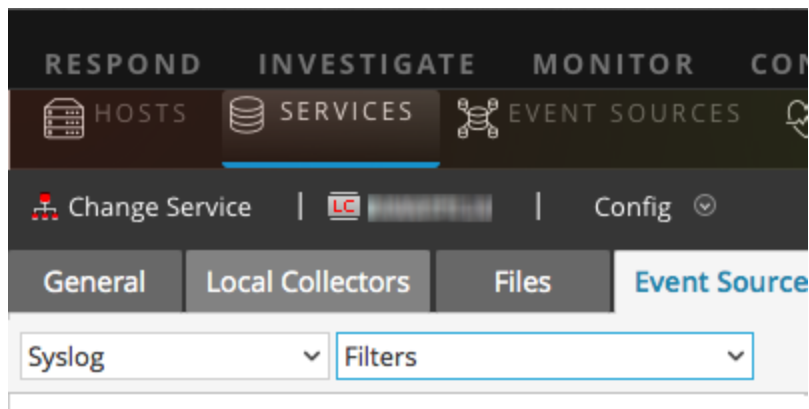
Field	Description
Operator	Valid values are: <ul style="list-style-type: none"> <li>• Contains</li> <li>• Equal</li> </ul>
Use Regex	Optional. You can select this if you want to use regex.
Value	Value depends on the key value you selected. For example if you choose <b>Syslog level</b> for Key, the value will be a number that denotes the syslog level.
Ignore case	Optional. Select this to ignore the case sensitivity.
Action	<p>If there is a match you can choose an action to accept, drop, next condition or next rule:</p> <ul style="list-style-type: none"> <li>• <b>Accept:</b> events that match the IDs provided will be included in event logs, and will display in the Systems Analytics UI.</li> <li>• <b>Drop:</b> events that match the IDs provided will not be included in event logs and will not display in the UI.</li> <li>• <b>Next condition:</b> the filter will ignore events with IDs that match, and will move on to the next rule condition.</li> <li>• <b>Next rule:</b> the filter will ignore events with IDs that match, and will move on to the next rule.</li> </ul> <p>If there is no match, you can choose an action to accept, drop, next condition or next rule.</p>

## Modify Filter Rules

### To modify existing filter rules:

1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.
5. In the **Event Sources** tab, select any collection method / **Filter** from the drop-down menus.

The following screen shows **Check Point** selected.



The **Filters** view displays the filters that are configured for the selected collection method, if any.

6. In the **Filter Rules** list, select a rule and click .

The **Edit Filter Rule** dialog is displayed.

Edit Filter Rule

?
X

Filter Name \*
Filter100

Rule Description \*
SyslogLevel100

Rule Conditions

+
-
↑
↓

<input type="checkbox"/>	Key *	Operator *	Use Regex	Value *	Ignore Case	Action	
						Match *	No Match *
<input type="checkbox"/>	syslog.level	Equals	true	1-2	true	Accept	Drop

Cancel
OK

7. Select the rule condition that you want to modify.

**Edit Filter Rule**

Filter Name \*      Filter100

Rule Description \*      SyslogLevel100

**Rule Conditions**

+ - ↑ ↓

<input type="checkbox"/>	Key *	Operator *	Use Regex	Value *	Ignore Case	Action	
						Match *	No Match *
<input type="checkbox"/>	syslog.level	Equals	true	1-2	true	Accept	Drop

Cancel OK

8. Modify the condition parameters that require changes and click **Update** > **OK**.

NetWitness Platform applies the condition parameter changes to the selected filter rule.

## Import, Export, Edit, and Test Event Sources in Bulk

This topic describes how to import, export, edit, and test event sources in bulk.

You can use the bulk export option to export the event source details of your current set up and store it. This data can be imported in bulk when you face a problem with your current set up and require the event source data you had.

You can use the bulk edit feature when you have multiple event sources that need a specific modification. You can select all the sources and apply the edit option across them at a time and avoid applying the change one by one.

### Import Event Sources in Bulk

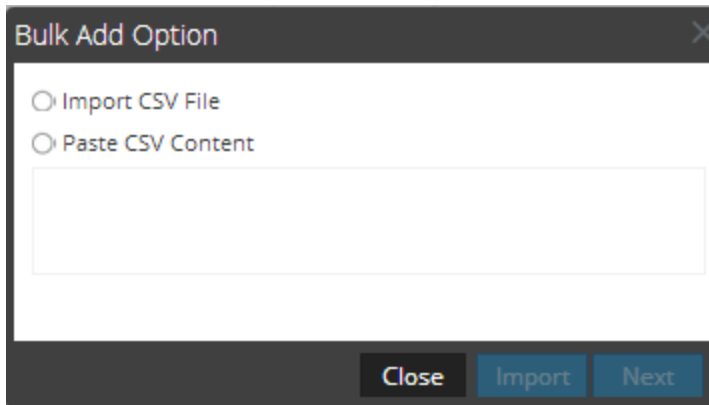
**Warning:** When using a spreadsheet program to edit an exported event source CSV file, some data fields like numbers and dates can be re-formatted into the spreadsheet program's native field types. This can cause issues when re-importing this information, as some data fields may be garbled or formatted incorrectly. This can be avoided by importing the CSV file into the spreadsheet program, and specifying all data fields as text values.

#### To import multiple event sources at once:

1. Go to **Admin** > **Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View** > **Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.

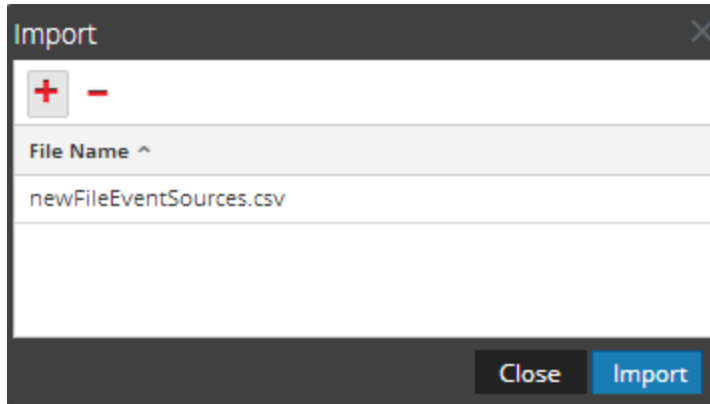
5. Select **Check Point, File, Netflow, ODBC, Plugins, SDEE, (Syslog for Remote Collectors) only, VMware, Windows, or Windows Legacy** (SNMP does not have an Import function.).
6. In the **Sources** panel toolbar, click **Import Source**.

The **Bulk Add Option** dialog is displayed.



7. Select either **Import CSV File** or **Paste CSV Content**. If you select:
  - Import CSV File:
    - a. Click **Next**.

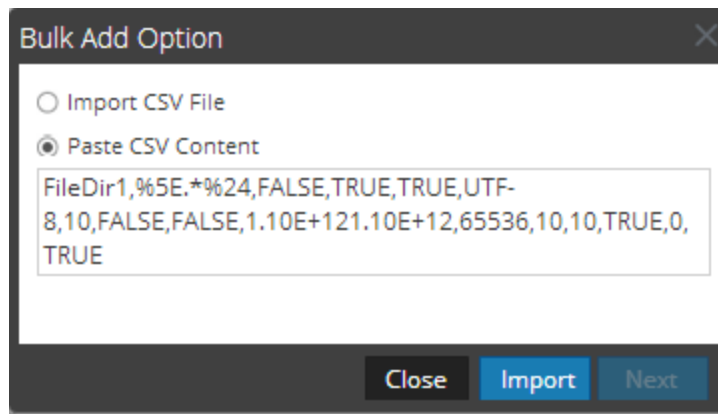
The **Import** dialog is displayed.
    - b. Click **Add** and select a **.csv** file from your network.



- c. Click **Import**.

The event sources are added to the **Event Source** list.
  - Paste CSV Content

- a. Copy the contents of the **.csv** file and paste them into the dialog.




- b. Click **Import**.

The event sources are added to **Event Source List**.

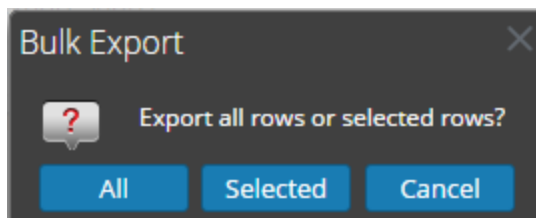
## Export Event Sources in Bulk

**Warning:** When using a spreadsheet program to edit an exported event source CSV file, some data fields like numbers and dates can be re-formatted into the spreadsheet program's native field types. This can cause issues when re-importing this information, as some data fields may be garbled or formatted incorrectly. This can be avoided by importing the CSV file into the spreadsheet program, and specifying all data fields as text values.

### To export event source information:

1. Go to **Admin > Services**.
2. Select a Log Collection service.
3. Select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.
5. Select **Check Point, File, Netflow, ODBC, Plugins, SDEE, (Syslog for Remote Collectors) only, VMware, Windows, or Windows Legacy** (SNMP does not have an Export function.).
6. In the **Sources** panel, select one or multiple event sources and click **Export Source**.

The **Bulk Export** dialog is displayed.



7. Based on your selection:




- **All:** NetWitness Platform exports all event sources to a time-stamped CSV file.
- **Selected:** NetWitness Platform exports the event source or sources you selected to a time-stamped CSV file.
- **Cancel:** NetWitness Platform cancels the export.

The following is an example of a time-stamped CSV file that gets created with the event sources that you selected from the list.

	A1		fileDirectory														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N			
1	fileDirectory	eventSource	fileSpec	fileSaveO	fileSaveO	fileSeque	fileEncodi	fileDiskQ	manageEr	manageSa	errorFiles	savedFile	errorFiles	savedFile			
2	Eur_Lond	127.0.0.1	%5E.*%24	FALSE	TRUE	TRUE	UTF-8	10	FALSE	FALSE	1.1E+12	1.1E+12	65536	65536			
3	US_Chicag	127.0.0.1	%5E.*%24	FALSE	TRUE	TRUE	UTF-8	10	FALSE	FALSE	1.1E+12	1.1E+12	65536	65536			
4	US_New	127.0.0.1	%5E.*%24	FALSE	TRUE	TRUE	UTF-8	10	FALSE	FALSE	1.1E+12	1.1E+12	65536	65536			

## Edit Event Sources in Bulk

To edit multiple event sources at once:

1. On the **Log Collector Event Sources** tab, select **Check Point**, **File**, **Netflow**, **ODBC**, **Plugins**, **SDEE**, **Syslog**, **VMware**, **Windows**, or **Windows Legacy** (SNMP does not have an Edit function.).
2. In the **Sources** panel, select multiple event sources and click .

The appropriate **Bulk Edit** dialog for the selected event source is displayed. The following figure is an example of **Bulk Edit Source** dialog for File event source parameters.

**Bulk Edit Source**

**Basic**

Select fields for bulk edit operation. Only selected fields will be updated.

☒ Enabled ☒

**Advanced**

☐ InFlight Publish Log Threshold

☐ Debug Off


Cancel OK

3. Select the checkbox to the left of the fields that you want to modify (for example, **Debug**).
4. Modify the selected parameters (for example, change Debug from **Off** to **On**).
5. Click **OK**.

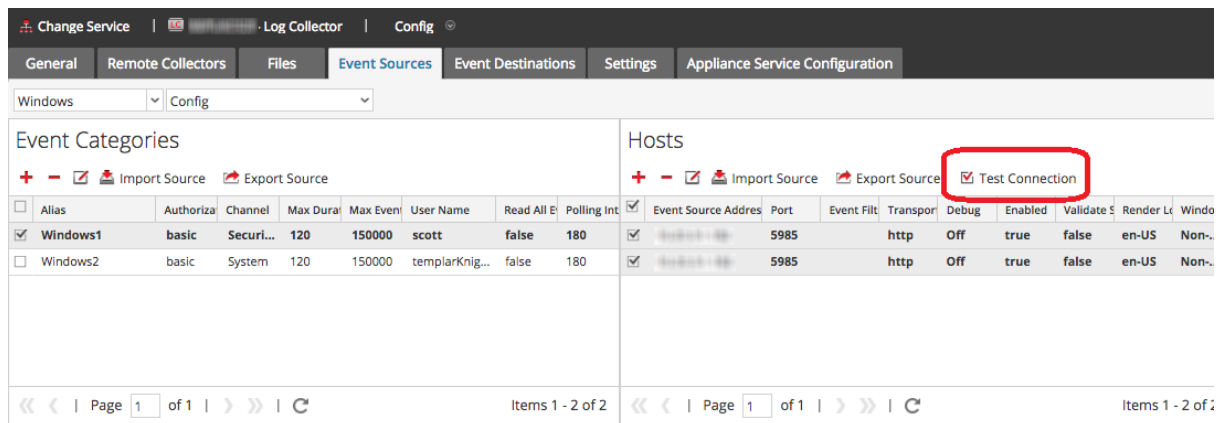
NetWitness Platform applies the same parameter value change to all of the selected event sources

## Test Event Source Connections in Bulk

To test multiple event source connections at once:

1. Go to **Admin > Services**.
2. In the **Services** grid, select a **Log Collector** service.
3. Select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Select the **Event Sources** tab, select **Plugins**, **ODBC**, or **Windows** (the other protocols do not have a bulk test connection function).
5. Select one or more:
  - sources from the **Sources** panel for **Plugins** or **ODBC**
  - hosts from **Hosts** panel for **Windows**

The **Test Connection** button is enabled.



The screenshot shows the 'Event Sources' configuration page for a 'Log Collector' service. The 'Event Sources' tab is active, and the 'Windows' protocol is selected. The 'Hosts' panel on the right displays a table with columns for Event Source Address, Port, Event Filter, Transport, Debug, Enabled, Validate, Render, and Window. The 'Test Connection' button is highlighted with a red box.

Event Source Address	Port	Event Filter	Transport	Debug	Enabled	Validate	Render	Window
10.10.10.10	5985		http	Off	true	false	en-US	Non-...
10.10.10.10	5985		http	Off	true	false	en-US	Non-...

6. Click  **Test Connection**.

The **Bulk Test Connections** dialog is displayed showing the current status of the test for each source. The status can be waiting, testing, passed or failed.

If you choose to close the testing before it is completed, the testing stops and the **Bulk Test Connections** dialog closes.

After the testing is complete, the results are displayed in the **Bulk Test Connections** dialog.

## See Also

You can use the **Event Sources** module (Administration > Event Sources) to create groups of event sources, typically imported from a CMDB, and to monitor event sources based on those groups. For details, see the following topics in the *Event Source Management Guide*:

- Import Event Sources
- Export Event Sources
- Bulk Edit Event Source Attributes

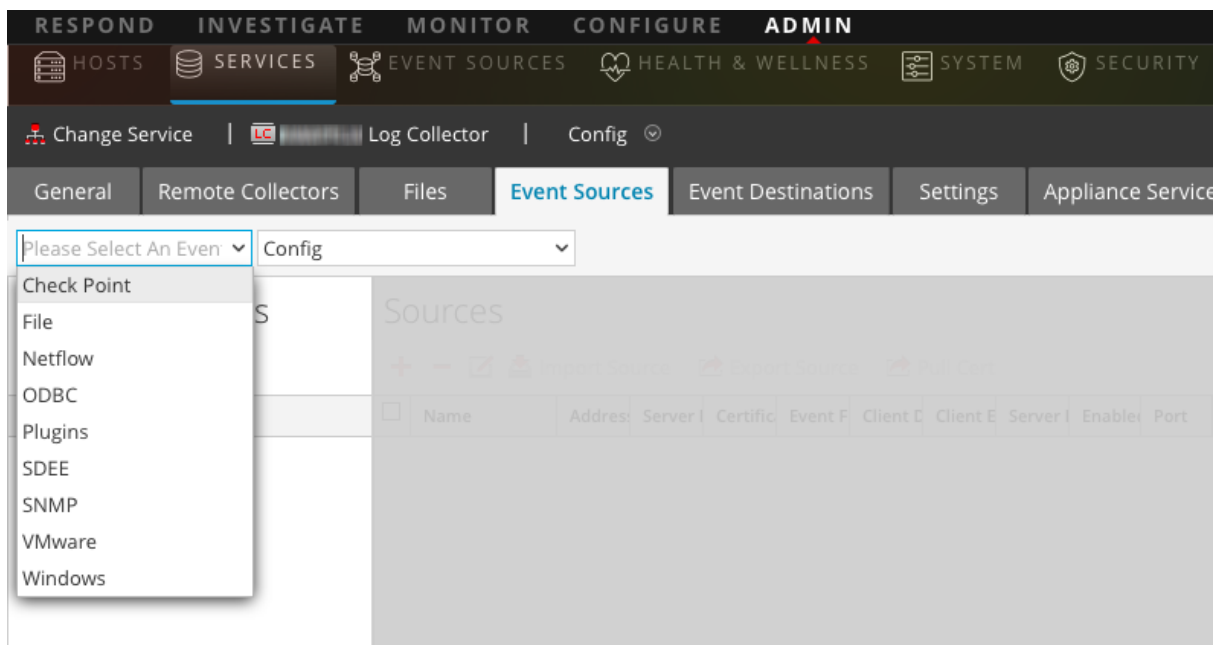
## Configure Collection Protocols and Event Sources



This topic tells you how to configure collection protocols and the event sources using those protocols.

You configure the Log Collector to collect event data from your event sources in the Event Sources tab of the Log Collection parameter view.

### To configure a collection protocol:

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.



5. Select a collection protocol (for example, **File**) and select **Config**.
6. Click  and select an event source.
7. Select the newly added category and click .
8. Specify the parameters for the event source. For details, see the individual collection protocol topics.

The following guides provide detailed instructions on how to configure the collection protocols and their associated event sources in NetWitness Platform. Each guide includes an index to configuration instructions for the event sources supported for that collection protocol.

To configure individual collection protocols, see the following topics:

- [Configure AWS \(CloudTrail\) Event Sources in NetWitness Platform](#)
- [Configure Azure Event Sources in NetWitness Platform](#)

- [Configure Check Point Event Sources in NetWitness Platform](#)
- [Configure File Event Sources in NetWitness Platform](#)
- [Configure Netflow Event Sources in NetWitness Platform](#)
- [Configure ODBC Event Sources in NetWitness Platform](#)
  - [Configure Data Source Names \(DSNs\)](#)
  - [Create Custom Typespec for ODBC Collection](#)
  - [ODBC Event Source Configuration Parameters](#)
  - [ODBC DSNs Event Source Configuration Parameters](#)
- [Configure SDEE Event Sources in NetWitness Platform](#)
- [Configure SNMP Event Sources in NetWitness Platform](#)
- [Configure Syslog Event Sources for Remote Collector](#)
- [Configure VMware Event Sources in NetWitness Platform](#)
- [Configure Windows Event Sources in NetWitness Platform](#)
- [Windows Legacy and NetApp Collection Configuration](#)
  - [Set Up the Windows Legacy Collector](#)
  - [Configure Windows Legacy and NetApp Event Sources](#)
  - [Troubleshoot Windows Legacy and NetApp Collection](#)

## Configure AWS (CloudTrail) Event Sources in NetWitness Platform

This topic tells you how to configure the AWS collection protocol, which collects events from Amazon Web Services (AWS) CloudTrail.

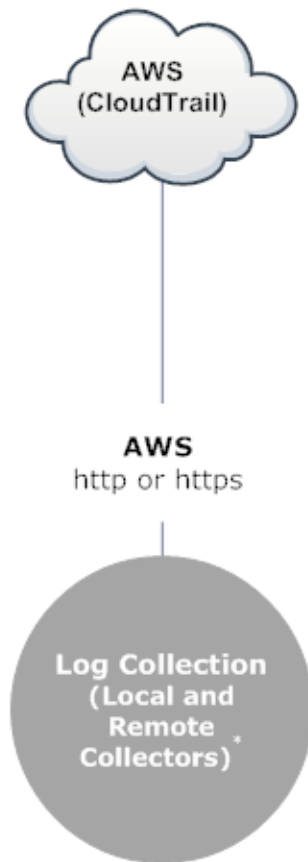
**Note:** The AWS plugin is meant only for collecting from AWS CloudTrail logs, and not for collecting from arbitrary logs in S3 buckets (under arbitrary directories). The AWS CloudTrail logs are sent in JSON format, as detailed in the AWS documentation here:  
<http://docs.aws.amazon.com/awsccloudtrail/latest/userguide/cloudtrail-event-reference.html>.

### How AWS Collection Works

The Log Collector service collects events from Amazon Web Services (AWS) CloudTrail. CloudTrail records AWS API calls for an account. The events contain the identity of the API caller, the time of the API call, the source IP address of the API caller, the request parameters, and the response elements returned by the AWS service. The AWS API call history provided by CloudTrail events enables security analysis, resource change tracking, and compliance auditing. CloudTrail uses Amazon S3 for log file storage and delivery. NetWitness Platform copies the log files from the cloud (S3 bucket), and sends the events contained in the files to the Log Collector.

### Deployment Scenario


The following figure illustrates how you deploy the AWS Collection Protocol in NetWitness Platform.



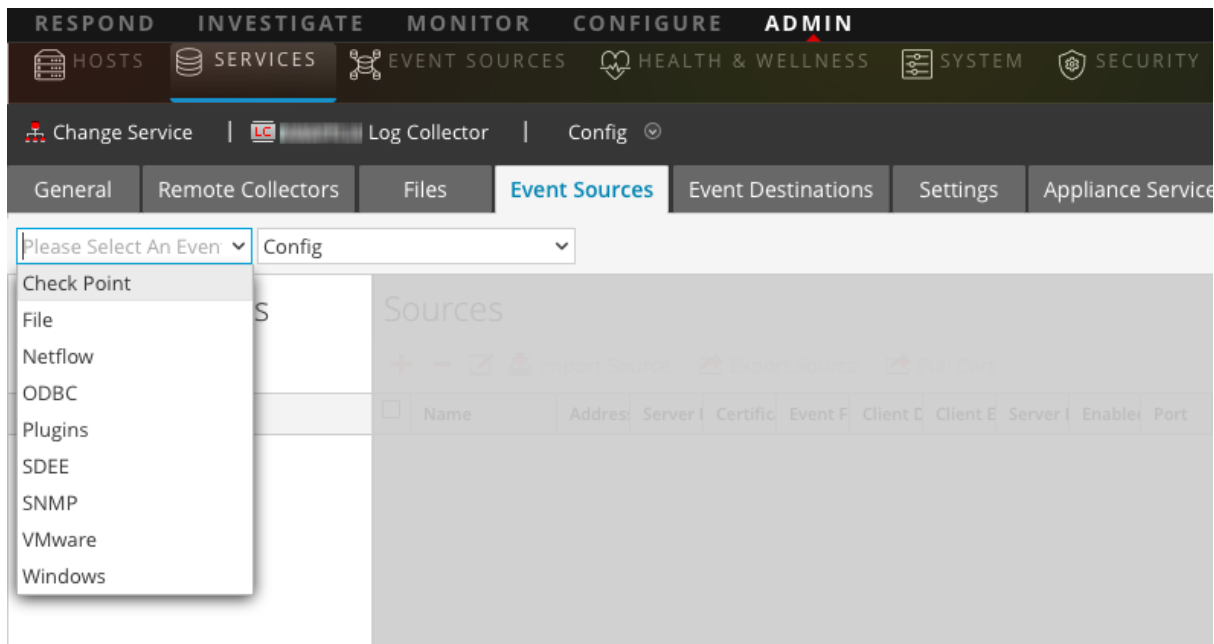
**\*In Log Collection, Remote Collectors send events to the Local Collector and the Local Collector sends events to the Log Decoder.**

## Configuration

### To configure an AWS (CloudTrail) Event Source:

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Select  > **View > Config** to display the Log Collection configuration parameter tabs.

- Click the **Event Sources** tab.




- In the **Event Sources** tab, select **Plugins/Config** from the drop-down menu.
- In the **Event Categories** panel toolbar, click **+**.  
The **Available Event Source Types** dialog is displayed.
- Select **cloudtrail** and click **OK**.  
The newly added event source type is displayed in the **Event Categories** panel.
- Select the new type in the **Event Categories** panel and click **+** in the **Sources** toolbar.  
The **Add Source** dialog is displayed.
- Define parameter values. For details, see [AWS Parameters](#) below.
- Click **Test Connection**.  
The result of the test is displayed in the dialog box. If the test is unsuccessful, edit the device or service information and retry.  
Log Collector takes approximately 60 seconds to return the test results. If it exceeds the time limit, the test times out and the NetWitness Platform displays an error message.
- If the test is successful, click **OK**.  
The new event source is displayed in the **Sources** panel.

## AWS Parameters

The following table describes the **Basic** configuration parameter for AWS collection.

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.



Parameter	Description
Name *	Name of the event source.
Enabled 	Select the check box to enable the event source configuration to start collection. The check box is selected by default.
Account Id *	Account Identification code of the S3 Bucket
S3 Bucket Name *	<p>Name of the AWS (CloudTrail) S3 bucket.</p> <p>Amazon S3 bucket names are globally unique, regardless of the AWS (CloudTrail) region in which you create the bucket. You specify the name at the time you create the bucket.</p> <p>Bucket names should comply with DNS naming conventions. The rules for DNS-compliant bucket names are:</p> <ul style="list-style-type: none"> <li>• Bucket names must be at least three and no more than 63 characters long.</li> <li>• Bucket names must be a series of one or more labels. Adjacent labels are separated by a single period “.”. Bucket names can contain lowercase letters, numbers, and hyphens. Each label must start and end with a lowercase letter or a number.</li> <li>• Bucket names must not be formatted as an IP address (for example, 192.168.5.4).</li> </ul> <p>The following examples are <b>valid</b> bucket names:</p> <ul style="list-style-type: none"> <li>• myawsbucket</li> <li>• my.aws.bucket</li> <li>• myawsbucket.1</li> </ul> <p>The following examples are <b>invalid</b> bucket names:</p> <ul style="list-style-type: none"> <li>• .myawsbucket - Do not start a Bucket Name with a period</li> <li>• myawsbucket. - Do not end a Bucket Name with a period</li> <li>• my..examplebucket - Only use one period between labels.</li> </ul>
Access Key *	Key used to access the S3 bucket. Access Keys are used to make secure REST or Query protocol requests to any AWS service API. Please refer to Manage User Credentials on the Amazon Web Services support site for more information on Access Keys.
Secret Key *	Secret key used to access the S3 bucket.
Region *	Region of the S3 bucket. <code>us-east-1</code> is the default value.
Region Endpoint	Specifies the AWS CloudTrail hostname. For example, for an AWS public cloud for us-east region, the Region Endpoint would be <code>s3.amazonaws.com</code> . More information can be found at <a href="http://docs.aws.amazon.com/general/latest/gr/rande.html#s3_region">http://docs.aws.amazon.com/general/latest/gr/rande.html#s3_region</a> . This parameter is necessary to collect CloudTrail logs from AWS Government or Private clouds.
Use Proxy	Enable <b>Use Proxy</b> to set proxy for AWS server. By default, it is disabled.
Proxy Server	Enter the proxy name you want to connect to access the AWS server.
Proxy Port	Enter the port number that connects to the proxy server to access the AWS server.
Proxy User	Enter the user name to authenticate with the proxy server.
Proxy Password	Enter the password to authenticate with proxy port.

Parameter	Description
Start Date *	Starts AWS (CloudTrail) collection from the specified number of days in the past, measured from the current timestamp. The default value is 0, which starts from today. The range is 0–89 days.
Log File Prefix	Prefix of the files to be processed.  <b>Note:</b> If you set a prefix when you set up your CloudTrail service, make sure to enter the same prefix in this parameter.
Cancel	Closes the dialog without adding the AWS (CloudTrail).
OK	Adds the current parameter values as a new AWS (CloudTrail).

The following table describes the **Advanced** configuration parameter for AWS collection.

Parameter	Description
Debug	<p><b>Caution:</b> 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>Enables or disables debug logging for the event source.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li><b>Off</b> = (default) disabled</li> <li><b>On</b> = enabled</li> <li><b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>
Command Args	Arguments added to the script.
Polling Interval	<p>Interval (amount of time in seconds) between each poll. The default value is 60.</p> <p>For example, if you specify 60, the collector schedules a polling of the event source every 60 seconds. If the previous polling cycle is still underway, it will wait for it to finish that cycle. If you have a large number of event sources that you are polling, it may take longer than 60 seconds for the polling to start because the threads are busy.</p>
SSL Enabled	<p>Select the check box to communicate using SSL. The security of data transmission is managed by encrypting information and providing authentication with SSL certificates.</p> <p>The check box is selected by default.</p>
Test Connection	<p>Validates the configuration parameters specified in this dialog are correct. For example, this test validates that:</p> <ul style="list-style-type: none"> <li>NetWitness can connect with the S3 Bucket in AWS using the credentials specified in this dialog.</li> <li>NetWitness can download a log file from the bucket (test connection would fail if there were no log files for the entire bucket, but this would be extremely unlikely).</li> </ul>


## Configure Azure Event Sources in NetWitness Platform

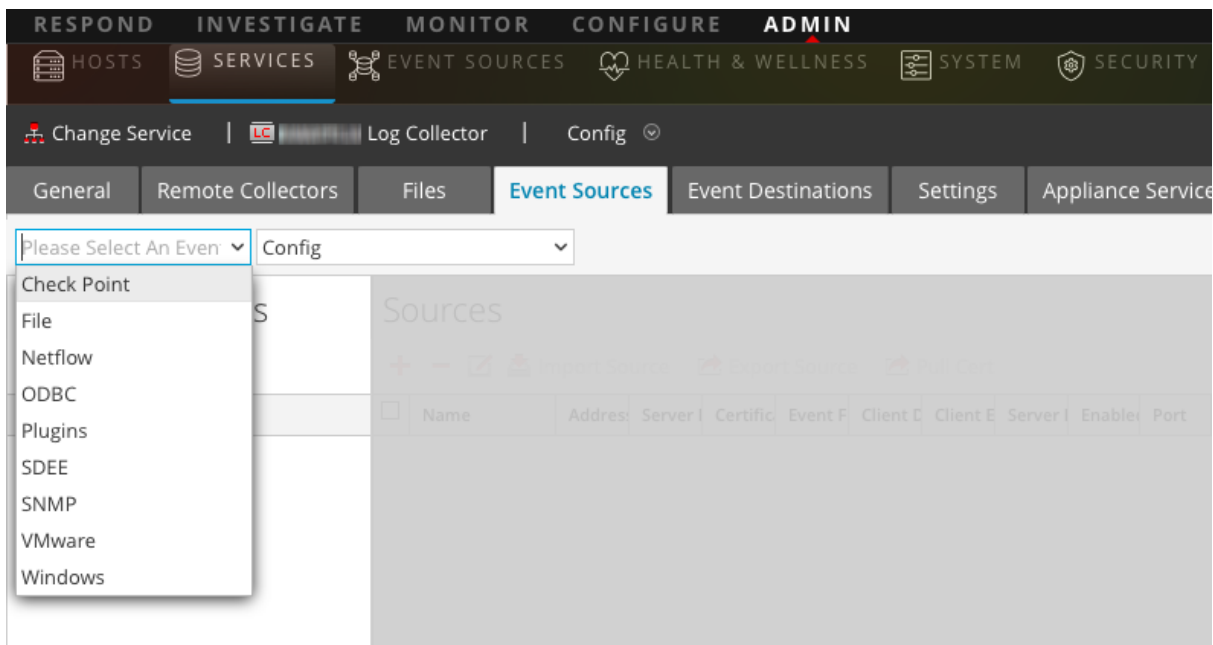
This topic tells you how to configure the Azure collection protocol. Microsoft Azure is a cloud computing platform and infrastructure for building, deploying, and managing applications and services through a global network of Microsoft-managed data centers.



### Configuration in NetWitness Platform

For complete details about configuring Azure as an event source, see the [Azure Event Source Configuration Guide](#), available on RSA Link.

#### To configure an Azure Event Source:

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.



5. In the **Event Sources** tab, select **Plugins/Config** from the drop-down menu.
6. In the **Event Categories** panel toolbar, click  .  
The **Available Event Source Types** dialog is displayed.
7. Select **azureaudit** and click **OK**.  
The newly added event source type is displayed in the **Event Categories** panel.
8. Select the new type in the **Event Categories** panel and click  in the **Sources** toolbar.  
The **Add Source** dialog is displayed.

9. Define parameter values. For details, see [Azure Parameters](#) below.
10. Click **Test Connection**.

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

Log Collector takes approximately 60 seconds to return the test results. If it exceeds the time limit, the test times out and the NetWitness Platform displays an error message.

11. If the test is successful, click **OK**.

The new event source is displayed in the **Sources** panel.

## Azure Parameters

This section describes the Azure event source configuration parameters.

### Basic Parameters

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

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 checkbox to enable the event source configuration to start collection. The checkbox is selected by default.
Client ID *	The Client ID is found the Azure Application Configure tab. Scroll down until you see it.
Client Secret *	When you are configuring the event source, the client secret is displayed when you are creating a key, and you select a duration of validation.  Make sure to save this, because you will only be able to see it once, and it cannot be retrieved later.
API Resource Base URL *	Enter <code>https://management.azure.com/</code> . Be sure to include the trailing slash (/).
Federation Metadata Endpoint *	In your Azure application, click the <b>View Endpoints</b> button (near the bottom of the pane).  There are a lot of links that all begin with the same string. Compare the URLs and find the common string that begins most of them. This common string is the endpoint that you need to enter here.
Subscription ID *	You can find this in the Microsoft Azure dashboard: click on Subscriptions at the bottom of the list on the left.
Tenant Domain *	Go to the active directory and click on the directory. In the URL, the tenant domain is the string directly following <code>manage.windowsazure.com/</code> . The tenant domain is the string up to and including the <code>.com</code> .

Name	Description
Resource Group Names *	In Azure, select Resource groups from the left navigation pane, then select your group.
Start Date *	Choose the date from which to start collecting. Default's to the current date.
Test Connection	Checks the configuration parameters specified in this dialog to make sure they are correct.

### Advanced Parameters

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

Name	Description
Polling Interval	Interval (amount of time in seconds) between each poll. The default value is <b>180</b> . For example, if you specify 180, the collector schedules a polling of the event source every 180 seconds. If the previous polling cycle is still underway, the collector waits for that cycle to finish. If you have a large number of event sources that you are polling, it may take longer than 180 seconds for the polling to start because the threads are busy.
Max Duration Poll	Maximum duration, in seconds, of a polling cycle. A zero value indicates no limit.
Max Events Poll	The maximum number of events per polling cycle (how many events collected per polling cycle).
Max Idle Time Poll	Maximum duration, in seconds, of a polling cycle. A zero value indicates no limit.
Command Args	Optional arguments to be added to the script invocation.

Name	Description
Debug	<p><b>Caution:</b> 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>Enables or disables debug logging for the event source. Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Off</b> = (default) disabled</li> <li>• <b>On</b> = enabled</li> <li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <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>

## Configure Check Point Event Sources in NetWitness Platform

This topic tells you how to configure the Check Point collection protocol, which collects events from Check Point event sources.

This protocol collects events from Check Point event sources using OPSEC LEA. OPSEC LEA is the Check Point Operations Security Log Export API that facilitates the extraction of logs.

### How Check Point Collection Works

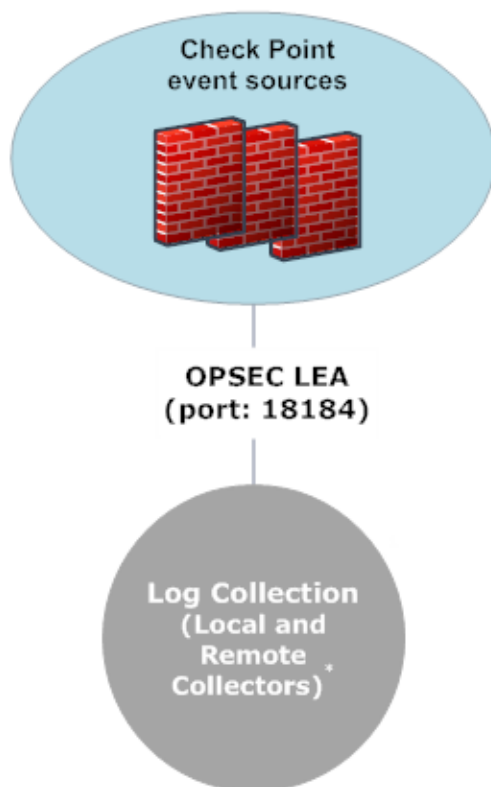
The Log Collector service collects events from Check Point event sources using OPSEC LEA. OPSEC LEA is the Check Point Operations Security Log Export API that facilitates the extraction of logs.

**Note:** OPSEC LEA (Log Export API) supports extraction of logs from Check Point event sources configured with a SHA-256 or SHA-1 certificate.

### Deployment Scenario

The following figure illustrates how you deploy the Check Point Collection Protocol in NetWitness Platform.


## Intranet



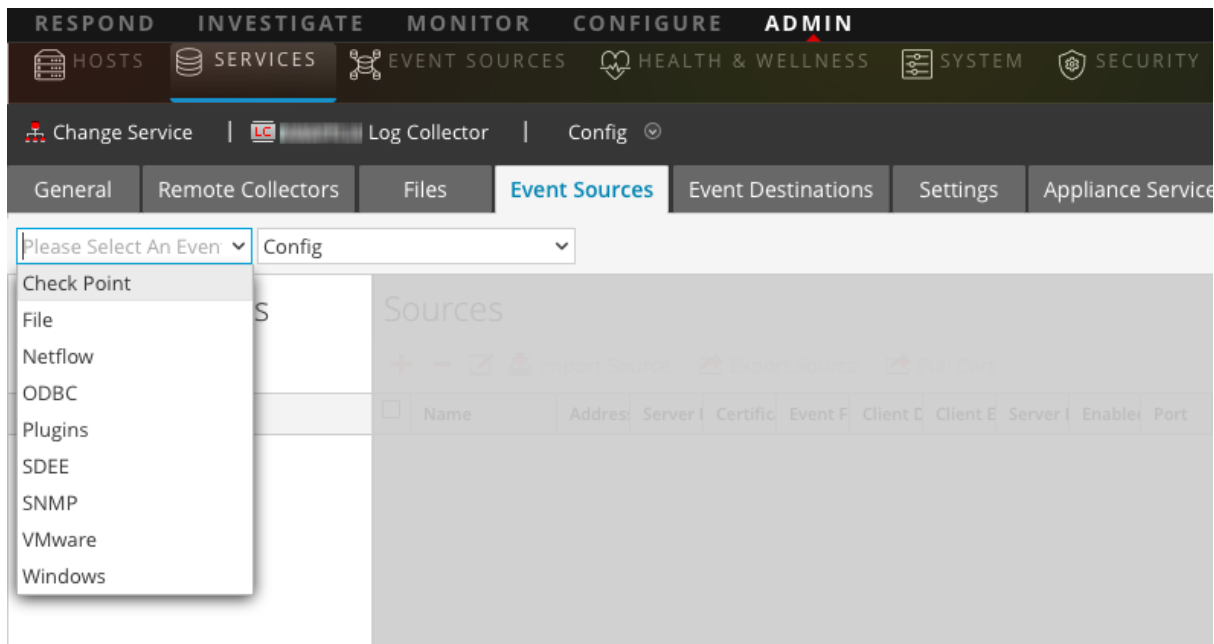
**\*In Log Collection, Remote Collectors send events to the Local Collector and the Local Collector sends events to the Log Decoder.**

### Configuration in NetWitness Platform

#### To configure a Check Point Event Source:

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Select  > **View > Config** to display the Log Collection configuration parameter tabs.

- Click the **Event Sources** tab.



- In the **Event Sources** tab, select **Check Point/Config** from the drop-down menu.
- In the **Event Categories** panel toolbar, click **+**.  
The **Available Event Source Types** dialog is displayed.
- Select a check point event source type and click **OK**.  
The newly added event source type is displayed in the **Event Categories** panel.
- Select the new type in the **Event Categories** panel and click **+** in the **Sources** toolbar.  
The **Add Source** dialog is displayed.
- Define parameter values. For details, see [Check Point Parameters](#) below.
- Click **Test Connection**.  
The result of the test is displayed in the dialog box. If the test is unsuccessful, edit the device or service information and retry.  
Log Collector takes approximately 60 seconds to return the test results. If it exceeds the time limit, the test times out and the NetWitness Platform displays an error message.
- If the test is successful, click **OK**.  
The new event source is displayed in the **Sources** panel.

## Check Point Parameters

This section describes the Check Point event source configuration parameters.



## Basic Parameters

Parameter	Description
Name*	Name of the event source.
Address*	IP Address of the Check Point server.
Server Name*	Name of the Check Point server.
Certificate Name	<p>Certificate name for secure connections to use when the transport mode is https. If set, the certificate must exist in the certificate trust store that you created using the Settings tab.</p> <p>Select a certificate from the drop-down list. The file naming convention for Check Point event source certificates is <b>checkpoint_name-of-event-source</b>.</p>
Client Distinguished	Enter the Client Distinguished Name from the Check Point server.
Client Entity Name	Enter the Client Entity Name from the Check Point server.
Server Distinguished	Enter the Server Distinguished Name from the Check Point server.
Enabled	Select the check box to enable the event source configuration to start collection. The check box is selected by default.
Pull Certificate	Select the checkbox to pull a certificate for first time. Pulling a certificate makes it available from the trust store.
Certificate Server Address	IP Address of the server on which the certificate resides. Defaults to the event source address.
Password	Only active when you select the Pull Certificate checkbox for first time. Password required to pull the certificate. The password is the activation key created when adding an OPSEC application to Check Point on the Check Point server.

## Determine Advanced Parameter Values for Check Point Collection

You use less system resources when you configure a Check Point event source connection to stay open for a specific time and specific event volume (transient connection). RSA NetWitness Platform defaults to the following connection parameters that establish a transient connection:

- Polling Interval = **180** (3 minutes)
- Max Duration Poll = **120** (2 minutes)
- Max Events Poll = **5000** (5000 events per polling interval)
- Max Idle Time Poll = **0**

For very active Check Point event sources, it is a good practice to set up a connection that stays open until you stop collection (persistent connection). This ensures that Check Point collection maintains the pace of the events generated by these active event sources. The persistent connection avoids restart and connection delays and prevents Check Point collection from lagging behind event generation.

To establish a persistent connection for a Check Point event source, set the following parameters to the following values:

- Polling Interval = **-1**
- Max Duration Poll = **0**
- Max Events Poll = **0**
- Max Idle Time Poll = **0**

Parameter	Description
Port	Port on the Check Point server that Log Collector connects to. Default value is 18184.
Collect Log Type	<p>Type of logs that you want to collect: Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Audit</b> - collects audit events.</li> <li>• <b>Security</b> - collects security events.</li> </ul> <p>If you want to collect both audit and security events, you must create a duplicate event source. For example, first you would create an event source with Audit selected pulling a certificate into the trust store for this event source. Next you would create another event source with the same values except that you would select Security for the Collect Log Type and you would select the same certificate in Certificate Name that you pulled when you set up the first set of parameters for this event source and you would make sure that Pull Certificate was not selected.</p>
Collect Logs From	<p>When you set up a Check Point event source, NetWitness collects events from the current log file. Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Now</b> - Start collecting logs now (at this point in time in the current log file).</li> <li>• <b>Start of Log</b> - Collect logs from the beginning of the current log file.</li> </ul> <p>If you choose "Start of Log" for this parameter value, you may collect a very large amount of data depending on how long the current log file has been collecting events. Note that this option is effective only for the first collection session.</p>
Polling Interval	<p>Interval (amount of time in seconds) between each poll. The default value is <b>180</b>.</p> <p>For example, if you specify 180, the collector schedules a polling of the event source every 180 seconds. If the previous polling cycle is still underway, it will wait for it to finish that cycle. If you have a large number of event sources that you are polling, it may take longer than 180 seconds for the polling to start because the threads are busy.</p>
Max Duration Poll	The maximum duration of polling cycle (how long the cycle lasts) in seconds.

Parameter	Description
Max Events Poll	The maximum number of events per polling cycle (how many events collected per polling cycle).
Max Idle Time Poll	Maximum idle time, in seconds, of a polling cycle. 0 indicates no limit. > <b>300</b> is the default value.
Forwarder	Enables or disables the Check Point server as a forwarder. By default it is disabled.
Log Type (Name Value Pair)	Logs from the event source in Name Value format. By default it is disabled.
Debug	<div> <p><b>Caution:</b> 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> </div> <p>Enables and disables debug logging for the event source.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Off</b> = (default) disabled</li> <li>• <b>On</b> = enabled</li> <li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>

## Verify Check Point Collection is Working

The following procedure illustrates how you can verify that Check Point collection is working from the **Administration > Health & Wellness > Event Source Monitoring** tab.

### To verify Check Point collection from the Event Source Monitoring tab:

1. Access the **Event Source Monitoring** tab from the **Administration > Health & Wellness** view.
2. Find **checkpointfw1** in the **Event Source Type** column.
3. Look for activity in the **Count** column to verify that Check Point collection is accepting events.

### To verify Check Point collection from the Investigation > Events view:

The following procedure illustrates how you can verify that Check Point collection is working from the **Investigation > Events** view.

1. Access the **Investigation > Events** view.
2. Select the Log Decoder (for example, **LD1**) collecting Check Point events in the **Investigate a Device** dialog.

- Look for a Check Point event source parser (for example, **checkpointfw1**) in the **device.type** field in the **Details** column to verify that Check Point collection is accepting events.


**Note:** If the logs from the VSX Checkpoint firewall server are collected by the Log Collector checkpoint service, to translate the VSX IP in the logs to **ip.orig** meta, you must add the VSX hostname and the VSX IP address to the `/etc/hosts` file in the Log Collector.

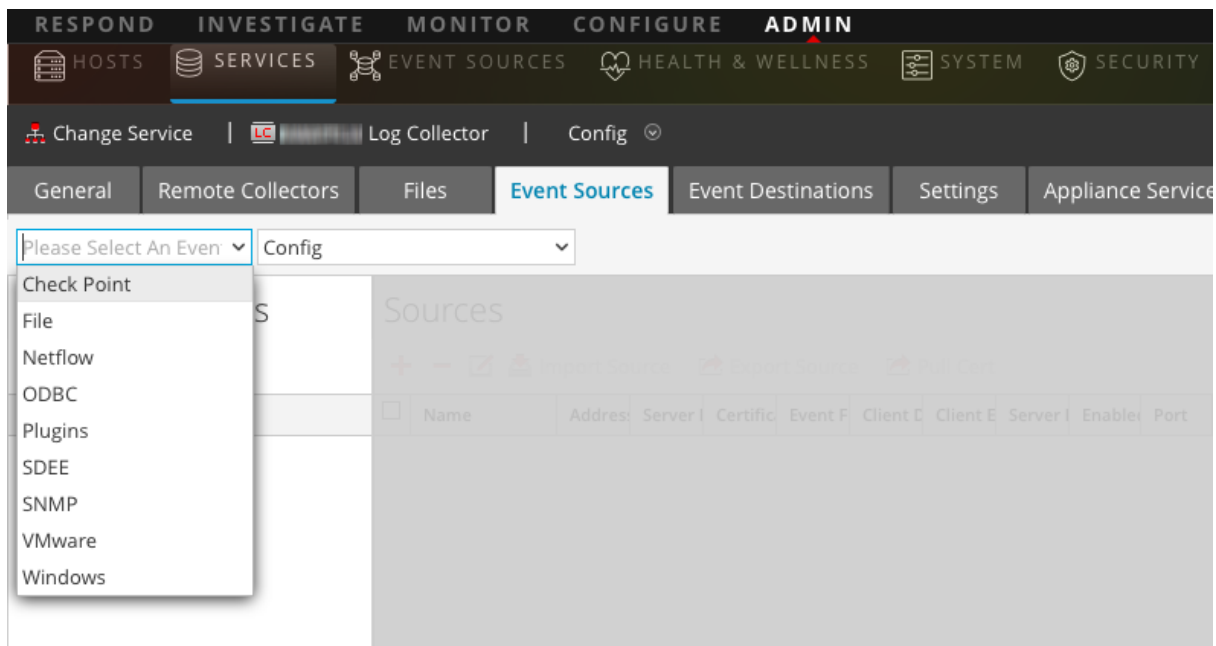
## Configure File Event Sources in NetWitness Platform


This topic tells you how to configure the File collection protocol.

### Configure a File Event Source


**To configure a File Event Source:**

- Go to **ADMIN > Services** from the NetWitness Platform menu.
- Select a Log Collection service.
- Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
- Click the **Event Sources** tab.



- In the **Event Sources** tab, select **File/Config** from the drop-down menu.
- In the **Event Categories** panel toolbar, click  .  
The **Available Event Source Types** dialog is displayed.
- Select a file event source type and click **OK**.

The newly added event source type is displayed in the **Event Categories** panel.

8. Select the new type in the **Event Categories** panel and click  in the **Sources** toolbar.  
The **Add Source** dialog is displayed.
9. Add a **File Directory** name and modify any other parameters that require changes. For details, see [File Collection Parameters](#) below.
10. To get the public key and enter it into the dialog box, do the following:
  - a. Select and copy the public key from the Event Source by running: `cat ~/.ssh/id_rsa.pub`
  - b. Paste the public key in the **Eventsource SSH Key** field.
11. Click **OK**.

You need to restart file collection for your changes to take effect.

## Stop and Restart File Collection

After you add a new event source that uses file collection, you must stop and restart the NetWitness Platform File Collection service. This is necessary to add the key to the new event source.

## File Collection Parameters

The following table provides descriptions of the File Collection source parameters.

The following table describes the **Basic** configuration parameter for File collection.

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Name	Description
File Directory*	<p>Collection directory (for example, <b>Eur_London100</b>) into which the File event source places its files. Valid value is a character string that conforms to the following regular expression:</p> <p><b>[_a-zA-Z][_a-zA-Z0-9]*</b></p> <p>This means that the file directory must start with a letter followed by numbers, letters, and underscores. <u>Do not modify this parameter after you start collecting event data.</u></p> <p>After you create the collection, the Log Collector creates the work, save, and error sub-directories under the collection directory.</p>
Address*	<p>IP address of the event source. Valid value is an <b>IPv4 address</b>, <b>IPv6 address</b>, or a <b>hostname</b> including a fully-qualified domain name.</p>
File Spec	<p>Regular expression. For example, <b>^.*\$</b> = process everything.</p>

Name	Description
File Encoding	<p>Internationalization file encoding. Enter the File Encoding method, the following strings are examples of valid methods:</p> <ul style="list-style-type: none"> <li>• UTF-8 (default)</li> <li>• UCS-16LE</li> <li>• UCS-16BE</li> <li>• UCS-32LE</li> <li>• UCS-32BE</li> <li>• SHIFT-JIS</li> <li>• EBCDIC-US</li> </ul>
Cancel	Closes the dialog without making adding an event source type.
OK	Adds the parameters for the event source.

The following table describes the **Advanced** configuration parameter for File collection.

Name	Description
Ignore Encoding Conversion Errors	<p>Select the check box to ignore encoding conversion errors and ignore invalid data. The check box is selected by default.</p> <p><b>Caution:</b> This may cause parsing and transformation errors.</p>
File Disk Quota	<p>Determines when to stop saving files regardless of the <b>Save On Error</b> and <b>Save On Success</b> parameter settings. For example, a value of 10 indicates that when there is less than 10% available disk left, the Log Collector stops saving files to reserve enough space for your estimated normal collection processing.</p> <p><b>Caution:</b> Available disk refers to a partition where the base collection directory is mounted. If the Log Decoder server has a 10TB disk size and 2TB is allocated to base collection directory, then setting this value to 10 causes log collection to stop when less than 0.2TB (10% of 2TB) of space is left. It does not mean 10% of 10TB.</p> <p>Valid value is a number in the <b>0</b> to <b>100</b> range. <b>10</b> is the default.</p>
Sequential Processing	<p>Sequential processing flag:</p> <ul style="list-style-type: none"> <li>• Select the check box (default) to process event source files in collection order.</li> <li>• Do not select the checkbox to process event source files in parallel.</li> </ul>
Save On Error	Save on error flag. Check the checkbox to retain the <b>eventsource collection</b> file when the Log Collector it encounters an error. The check box is selected by default.
Save On Success	Save <b>eventsource collection</b> file after processing flag. Check the checkbox to save the eventsource collection file after processing it. The check box is not selected by default.

Name	Description
Eventsource SSH Key	<p>SSH public key used to upload files for this event source. Please refer to the <i>Generate Key Pair on Event Source and Import Public Key to Log Collector</i> section in the <a href="#">Install and Update the SFTP Agent Guide</a> for instructions on generating keys.</p> <div> <p><b>Note:</b> If File collection is stopped, NetWitness Platform does not update the <code>authorized_keys</code> file with the SSH public key that you add or modify in this parameter. You must restart File collection to update the public key.</p> <p>You can add or modify the value of the public key in this parameter in multiple File event sources without File collection running, but NetWitness Platform will not update the <code>authorized_keys</code> file until File collection is restarted.</p> </div>
Manage Error Files	<p>By default, the Log Collector uses the <b>File Disk Quota</b> parameter to ensure that the disk does not fill up with error files. If you set this parameter to <b>true</b>, you can specify one of these:</p> <ul style="list-style-type: none"> <li>Maximum space allotted to error files in the <b>Error Files Size</b> parameter.</li> <li>Maximum number of error files allowed in <b>Error Files Count</b> parameter.</li> </ul> <p>A reduction percent is also specified, which tells the system how much to reduce when the maximum is reached.</p> <p>Select the check box to manage error files. The check box is not selected by default.</p>
Error Files Size	<p>Only valid if the <b>Manage Error Files</b> and <b>Save On Error</b> parameters are set to true. Specifies to what extent NetWitness Platform saves error files. The value that you specify is the maximum total size of all the files in the error directory.</p> <p>Valid value is a number in <b>0</b> to <b>281474976710655</b> range. You specify these values in either <b>Kilobytes</b>, <b>Megabytes</b>, or <b>Gigabytes</b>. <b>100 Megabytes</b> is the default. If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Error Files Count	<p>Only valid if the <b>Manage Error Files</b> and <b>Save On Error</b> parameters are set to true. Maximum number of error files allowed in the error directory. Valid value is a number in <b>0</b> to <b>65536</b> range. <b>65536</b> is the default.</p> <p>If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Error Files Reduction %	<p>Percent amount by size or count of the error files that the Log Collector service removes when the maximum size or count has been reached. The service removes the oldest files first.</p> <p>Valid value is a number in the <b>0</b> to <b>100</b> range. <b>10</b> is the default.</p>

Name	Description
Manage Saved Files	<p>Select the check box to manage saved files. The check box is not selected by default. By default, the Log Collector uses the <b>File Disk Quota</b> parameter to ensure that the disk does not fill up with saved files. If check this check box, you can specify one of these:</p> <ul style="list-style-type: none"> <li>Maximum space allotted to saved files in the <b>Saved Files Size</b> parameter.</li> <li>Maximum number of saved files allowed in <b>Saved Files Count</b> parameter.</li> </ul> <p>A reduction percent is also specified, which tells the system how much to reduce when the maximum is reached.</p>
Saved Files Size	<p>Only valid if the <b>Manage Saved Files</b> and <b>Save On Success</b> parameters are set to true. Maximum total size of all the files in the save directory. Valid value is a number in the <b>0 to 281474976710655</b> range. You specify these values in either <b>Kilobytes</b>, <b>Megabytes</b>, or <b>Gigabytes</b>. <b>100 Megabytes</b> is the default.</p> <p>If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Saved Files Count	<p>Only valid if the <b>Manage Saved Files</b> and <b>Save On Success</b> parameters are set to true. Maximum number of saved files in the save directory. Valid value is a number in <b>0 to 65536</b> range. <b>65536</b> is the default.</p> <p>If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Saved File Reduction %	<p>Percent amount by size or count of the saved files that the Log Collector service removes when the maximum size or count has been reached. The service removes the oldest files first.</p> <p>Valid value is a number in the <b>0 to 100</b> range. <b>10</b> is the default.</p>
Debug	<div> <p><b>Caution:</b> Only enable debugging (set this parameter to <b>On</b> or <b>Verbose</b>) 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> </div> <p>Enables or disables debug logging for the event source. Valid values are:</p> <ul style="list-style-type: none"> <li><b>Off</b> = (default) disabled</li> <li><b>On</b> = enabled</li> <li><b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>




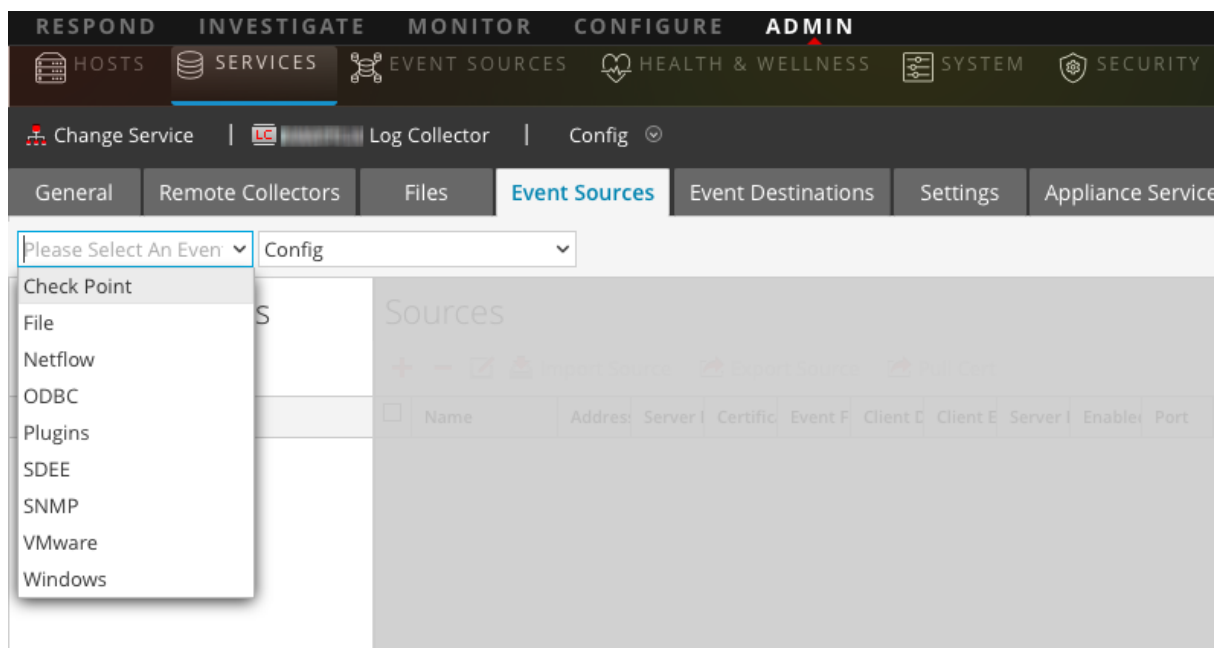
## Configure Netflow Event Sources in NetWitness Platform


This topic tells you how to configure the Netflow collection protocol.

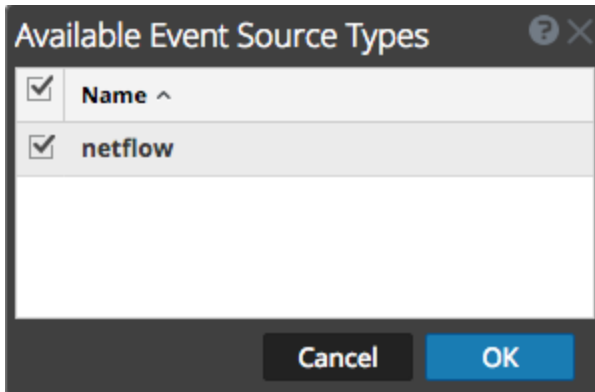
### Configure a Netflow Event Source

**To configure a Netflow Event Source:**

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.



5. In the **Event Sources** tab, select **Netflow/Config** from the drop-down menu.
6. In the **Event Categories** panel toolbar, click  .  
The **Available Event Source Types** dialog is displayed.
7. Select the **netflow** event source type and click **OK**.



The newly added event source type is displayed in the **Event Categories** panel.

8. Select the new type in the **Event Categories** panel and click **+** in the **Sources** toolbar.

The **Add Source** dialog is displayed.

9. Enter a port number in the **Port** field, and ensure the Enabled box is checked.

**Note:** NetWitness Platform opens the 2055, 4739, 6343, and 9995 ports on the firewall by default. You can open other ports for Netflow if required.

For details of other parameters, see [Netflow Collection Parameters](#) below.

10. Click **OK**.

The new event source is displayed in the list.

## Netflow Collection Parameters

The following table provide descriptions of the basic Netflow Collection parameters.

Name	Description
Port	Specify the port number configured for the Netflow event source. NetWitness Platform opens the 2055, 4739, 6343, and 9995 ports for Netflow by default. You can open other ports for Netflow if required.
Enabled	Select the check box to enable the event source configuration to start collection. The check box is selected by default.
Cancel	Closes the dialog without making adding an event source type.
OK	Adds the parameters for the event source.

The following table provide descriptions of the advanced Netflow Collection parameters.

Name	Description
InFlight Publish Log Threshold	<p>Establishes a threshold that, when reached, NetWitness Platform generates a log message to help you resolve event flow issues. The Threshold is the size of the netflow event messages currently flowing from the event source to NetWitness Platform .</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>0 (default)</b> - disables the log message.</li> <li>• <b>100-100000000</b> - generates a log message when this Log Collector has processed the specified number of netflow events. For example, if you set this value to 100, NetWitness Platform generates a log message when 100 netflow events of the specific netflow version (v5 or v9) have been processed.</li> </ul>
Debug	<div> <p><b>Caution:</b> 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> </div> <p>Enables or disables debug logging for the event source.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Off</b> = (default) disabled</li> <li>• <b>On</b> = enabled</li> <li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>

## ODBC

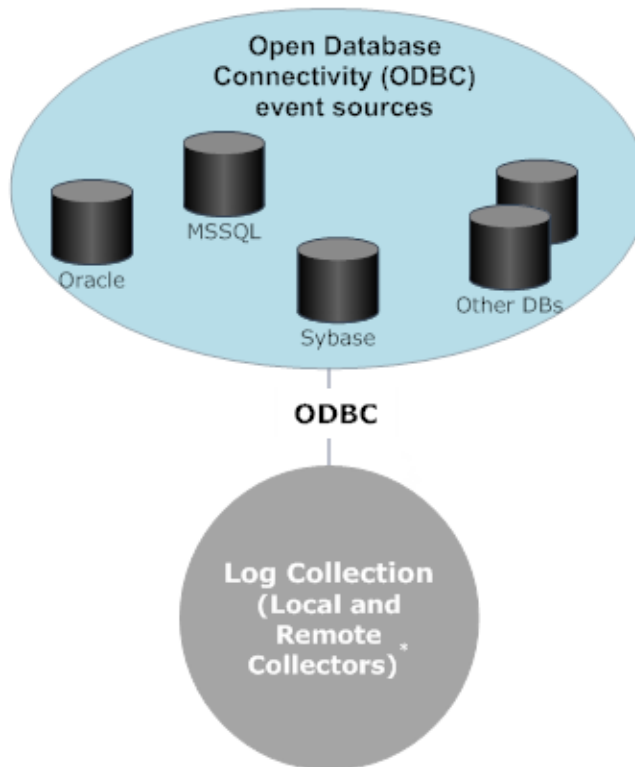
### Configure ODBC Event Sources in NetWitness Platform

This topic tells you how to configure ODBC collection protocol which collects events from event sources that store audit data in a database using the Open Database Connectivity (ODBC) software interface.

#### Deployment Scenario

The following figure illustrates how you deploy the ODBC Collection Protocol in NetWitness Platform.

# Intranet



**\*In Log Collection, Remote Collectors send events to the Local Collector and the Local Collector sends events to the Log Decoder.**


## Configure an ODBC Event Source


To configure an ODBC event source, you need to configure an event source type, and also choose a DSN template.

## Configure a DSN

The following procedure describes how to add a DSN from an existing DSN template. For other procedures related to DSNs, see [Configure Data Source Names \(DSNs\)](#).

### Configure a DSN (Data Source Name):

1. Go to **Administration > Services**.
2. In the **Services** grid, select a **Log Collector** service.
3. Click  under **Actions** and select **View > Config**.
4. In the Log Collector **Event Sources** tab, select **ODBC/DSNs** from the drop-down menu.
5. The DSNs panel is displayed with the existing DSNs, if any.

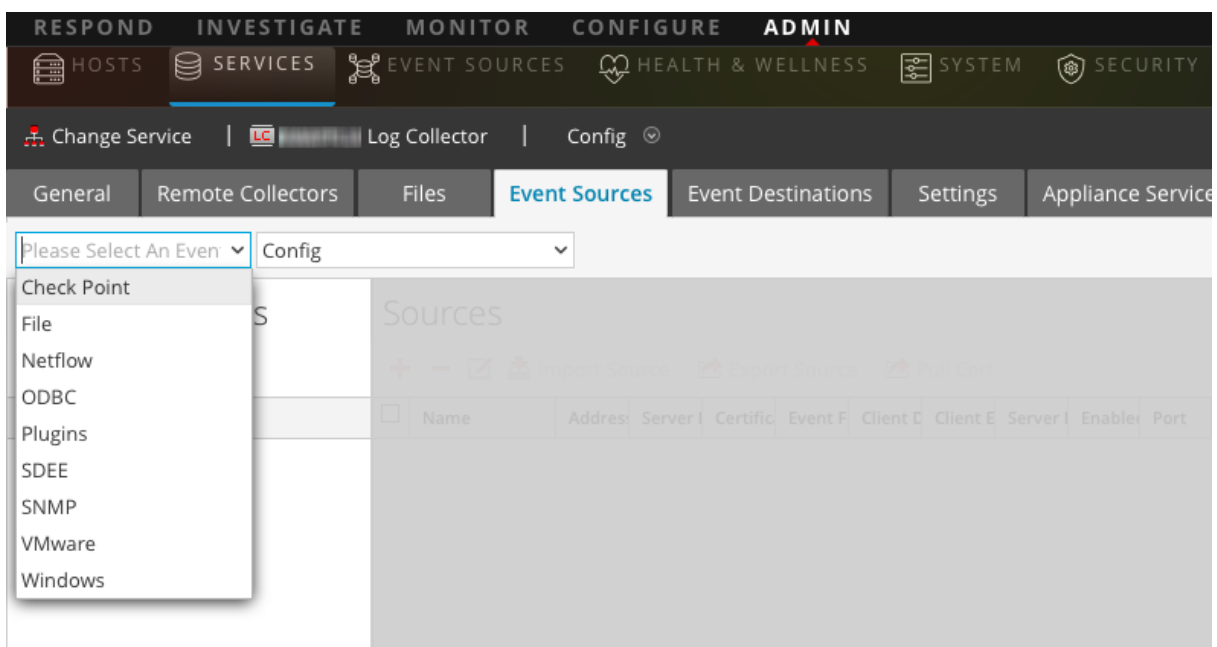
6. Click **+** to open the **Add DSN** dialog.
7. Choose a DSN Template from the drop down menu and enter a name for the DSN. (You use the name when you set up the ODBC event source type.) If required, click  **Manage Templates** to add or delete DSN templates.
8. Fill in the parameters and click **Save**.

### Add an Event Source Type

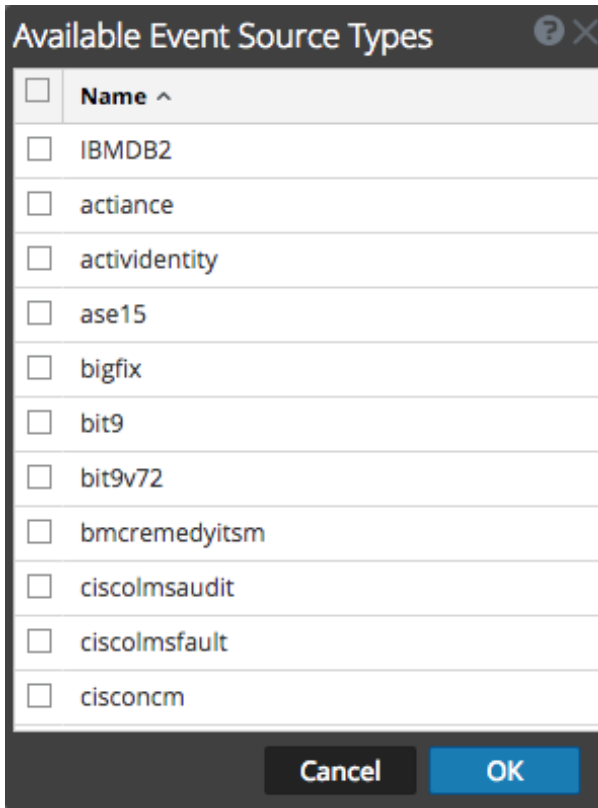
For details on parameters used in the following procedure, see [ODBC Event Source Configuration Parameters](#).

#### To configure an ODBC Event Source Type:

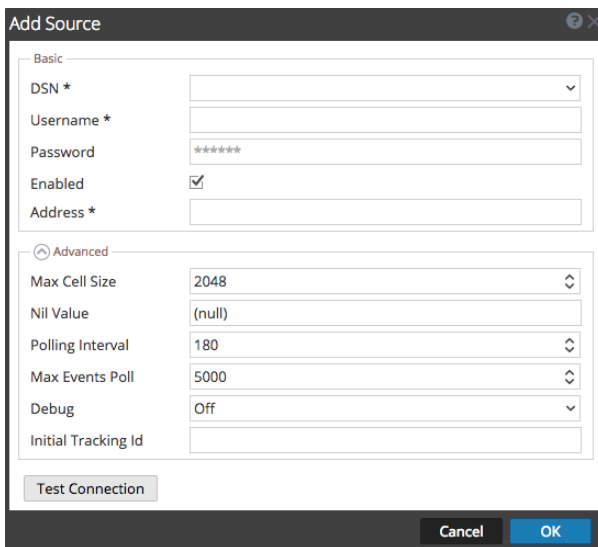
1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.



5. In the **Event Sources** tab, select **ODBC/Config** from the drop-down menu.
6. In the **Event Categories** panel toolbar, click **+**.  
The **Available Event Source Types** dialog is displayed.



7. Select an event source category (for example **mssql** and click **OK**.  
The newly added event source type is displayed in the **Event Categories** panel.
8. Select the new type in the **Event Categories** panel and click **+** in the **Sources** toolbar.  
The **Add Source** dialog is displayed.



9. Select a DSN from the drop down list, specify or modify the other parameters as required, and click **OK**.

**10. Click **Test Connection**.**

The result of the test is displayed in the dialog box. If the test is unsuccessful, edit the DSN information and retry.

**Note:** Log Collector takes approximately 60 seconds to return the test results. If it exceeds the time limit, the test times out and the NetWitness Platform server displays an error message.

**11. If the test is successful, click **OK**.**

The newly defined DSN is displayed in the **Sources** panel.

## Configure Data Source Names (DSNs)

This topic tells you how to create and maintain DSNs for ODBC Collection.


### Context

Open Database Connectivity (ODBC) event sources require Data Source Names (DSNs) so you need to define DSNs with their associate value pairs for ODBC event source configuration.

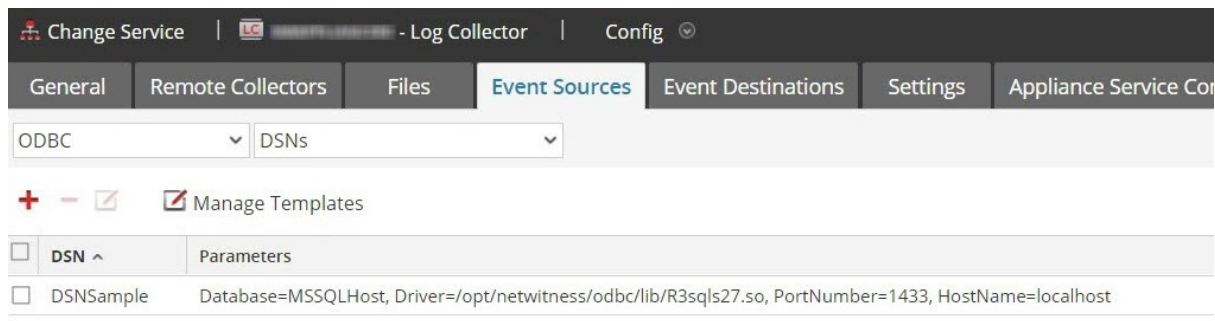
### Navigate to the DSN Panel

To add or edit DSNs or DSN templates, first navigate to the appropriate screen.

#### To navigate to the DSN templates panel:

1. Go to **ADMIN > Services**.
2. In the **Services** grid, select a **Log Collector** service.
3. Click  under **Actions** and select **View > Config**.
4. In the **Log Collector Event Sources** tab, select **ODBC/DSNs** from the drop-down menu.

The **DSNs** panel is displayed with the DSNs that are added, if any.



From this screen, you can perform the following actions:

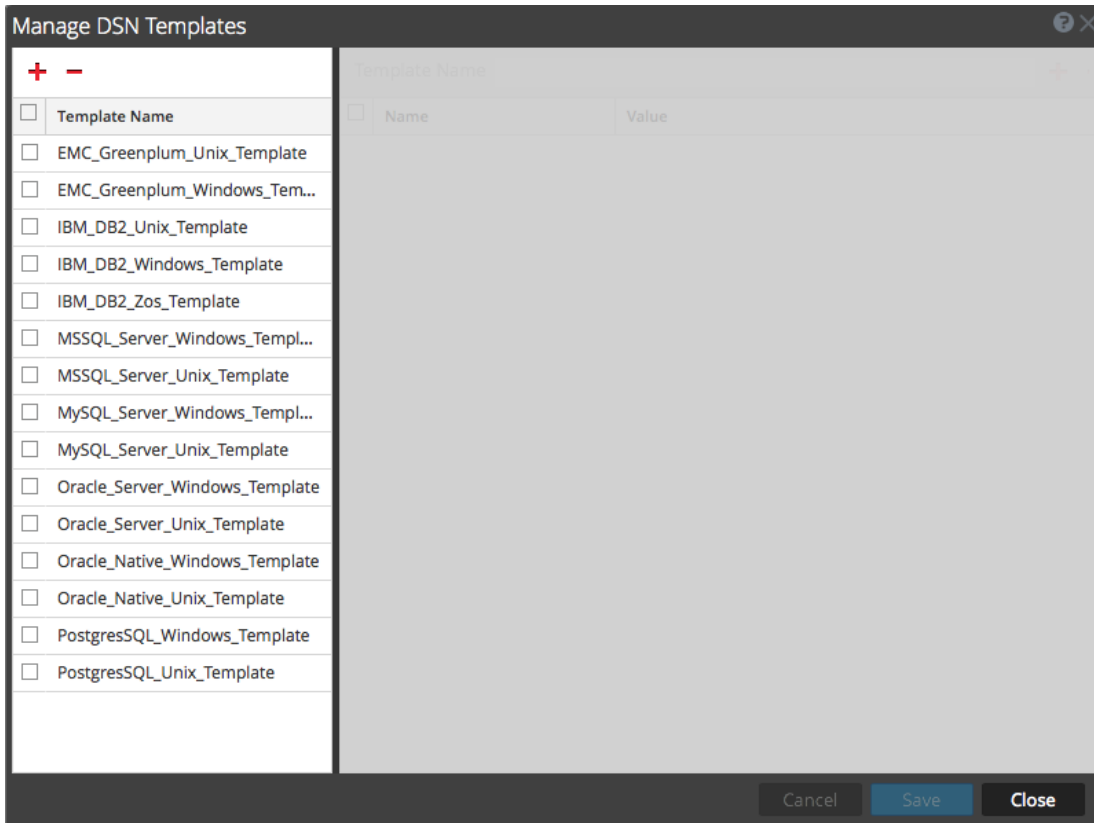
- Add a new DSN template
- Add a DSN from an existing template
- Add a DSN by editing an existing DSN template
- Remove a DSN or DSN template

## Add a New DSN Template

If none of the predefined DSN templates fit your needs, use this procedure to add a DSN template.

1. From the DSNs panel, click  **Manage Templates**.

The **Manage DSN Templates** dialog is displayed.



**Note:** RSA provides default templates on the left side panel that you can use while adding a new DSN.

2. Click .

The right panel is activated.

3. Specify a template name and click  on the right panel to add parameters.



- Specify the parameters. Click **Save**.

The screenshot shows the 'Manage DSN Templates' dialog box. On the left, there is a list of templates with checkboxes. The 'MSSQL\_Server\_Windows\_Template' is selected. On the right, the parameters for this template are displayed in a table:


Name	Value
<input checked="" type="checkbox"/> HostName	http://testServer/home
<input type="checkbox"/> PortNumber	1433
<input type="checkbox"/> Database	MSSQLHost
<input type="checkbox"/> Driver	/opt/netwitness/odbc/lib/R3sqs27.so

At the bottom of the dialog, there are three buttons: 'Cancel', 'Save' (highlighted in blue), and 'Close'.

The new DSN template is added in the **Manage DSN Templates** list.

### Add a DSN from an existing template

You can select an existing template, and fill in the parameters for your needs.

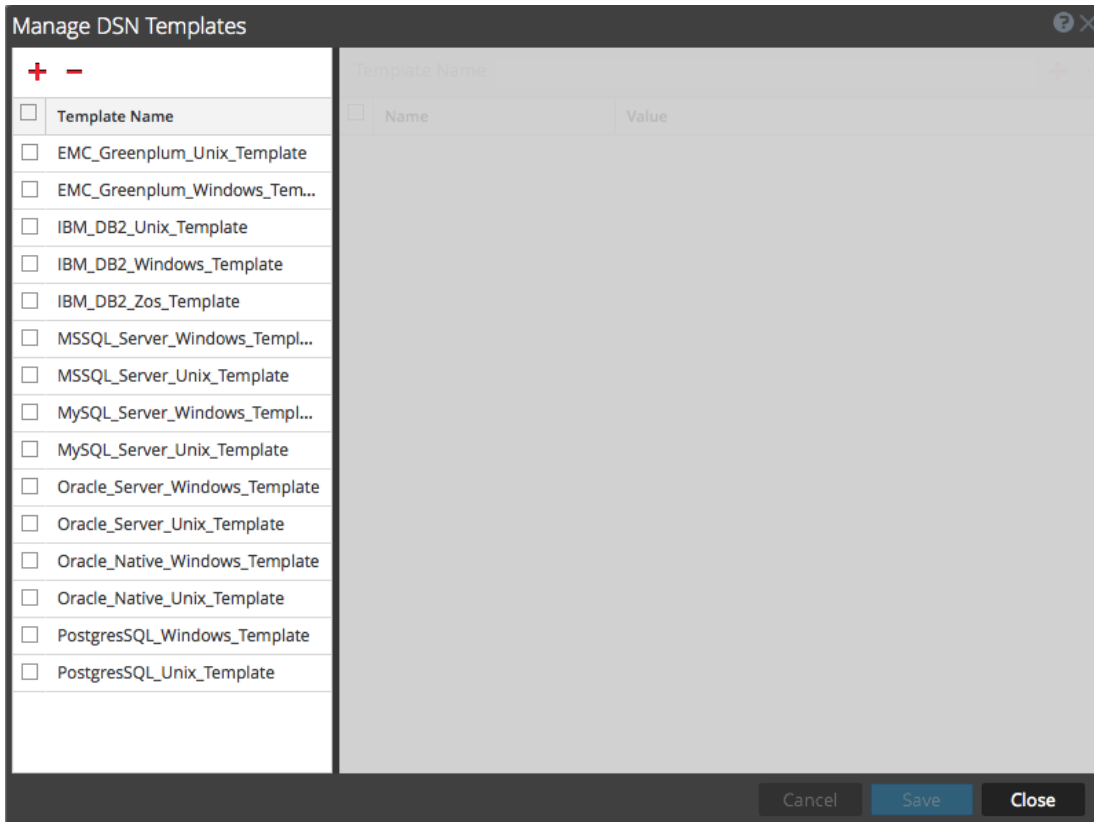
- From the DSNs panel, click  to open the Add DSN dialog box.  
The **Add DSN** dialog is displayed with existing DSNs, if any
- Choose a DSN Template from the drop down menu and enter a name for the DSN. (You use the name when you set up the ODBC event source type.)
- Fill in the parameters and click **Save**.

Your DSN is added to the list of DSNs.

### Add a New DSN by editing an existing DSN template

You can add a DSN by updating an existing DSN template to fit your needs.

- From the DSNs panel, click  **Manage Templates**.  
The **Manage DSN Templates** dialog is displayed.



2. Select the existing template that you want to modify.

The right panel is activated, and the default parameters for the selected template are displayed.

**Add DSN**

DSN Template: EMC\_Greenplum\_Unix\_Template

DSN Name\*:

**Parameters**

**+ -**

<input type="checkbox"/>	Name	Value
<input type="checkbox"/>	PortNumber	5432
<input type="checkbox"/>	HostName	GreenplumServer
<input type="checkbox"/>	Database	Gplumdb1
<input type="checkbox"/>	Driver	ODBCHOME/lib/xxgplmnn.zz

**Cancel Save**

3. Specify a name in the **DSN Name** field.
4. Add, delete or edit the default parameters.
5. Once you have the set of required parameters, click **Save**, then **Close**.
6. Choose the DSN Template that you updated from the drop down menu and enter a name for the DSN. (You use the name when you set up the ODBC event source type.)
7. Fill in the parameters and click **Save**.

Your DSN is added to the list of DSNs.

### Remove a DSN or DSN template

If you no longer use a DSN or a DSN template, you can remove it from the system.

#### To remove an existing DSN:

1. From the DSNs panel, select an existing DSN.
2. Click **-**.

A Warning message appears, asking whether you are sure you want to delete the DSN.

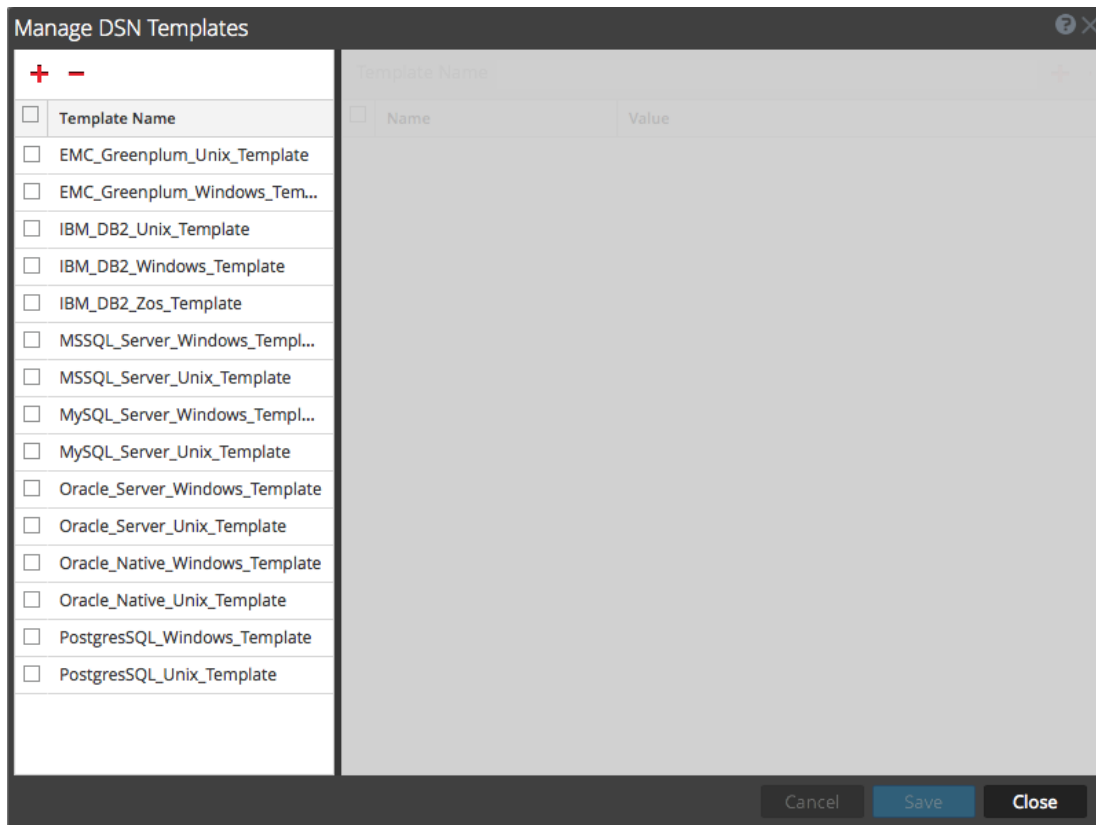
3. To delete the DSN, click **Yes**. Alternatively, to cancel the deletion, click **No**.


If you confirmed the deletion, the selected DSN is removed from the system.

### To remove an existing DSN Template:

1. From the DSNs panel, click  **Manage Templates**.

The **Manage DSN Templates** dialog is displayed.



2. From the DSNs panel, select an existing DSN Template.
3. Click .

A Confirmation message appears, asking whether you are sure you want to delete the DSN Template.


4. To delete the DSN Template, click **Yes**. Alternatively, to cancel the deletion, click **No**.

If you confirmed the deletion, the selected DSN Template is removed from the system.

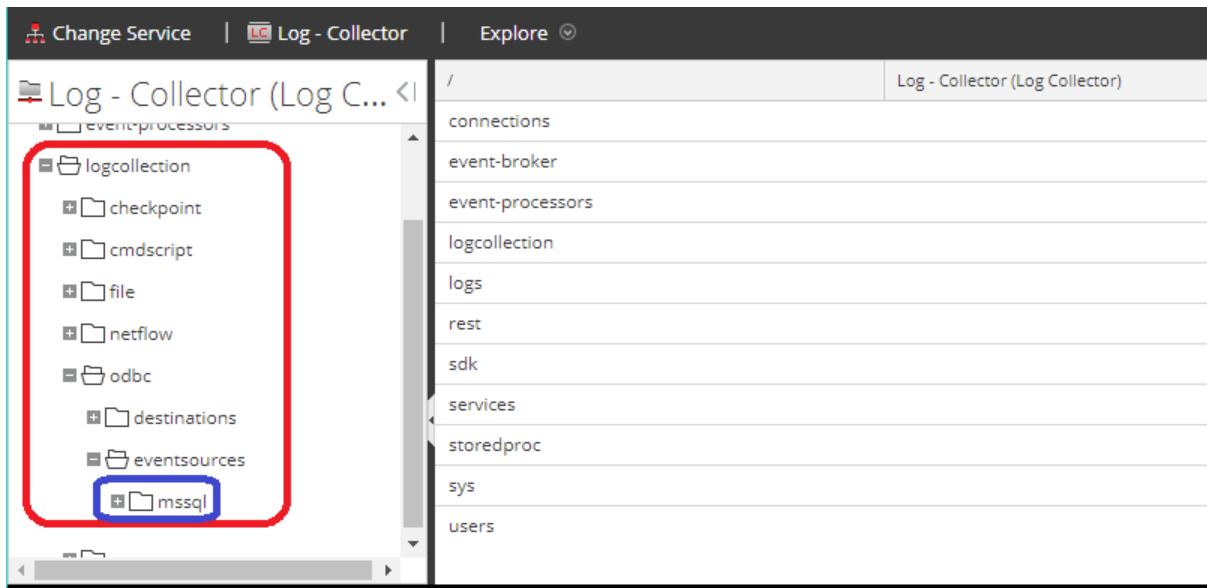
### Configure device.ip meta for ODBC Data Source

For any ODBC event source, you can choose to have the ODBC collector populate the **device.ip** meta value with either the event source IP address or the actual source IP on which logs are being collected.

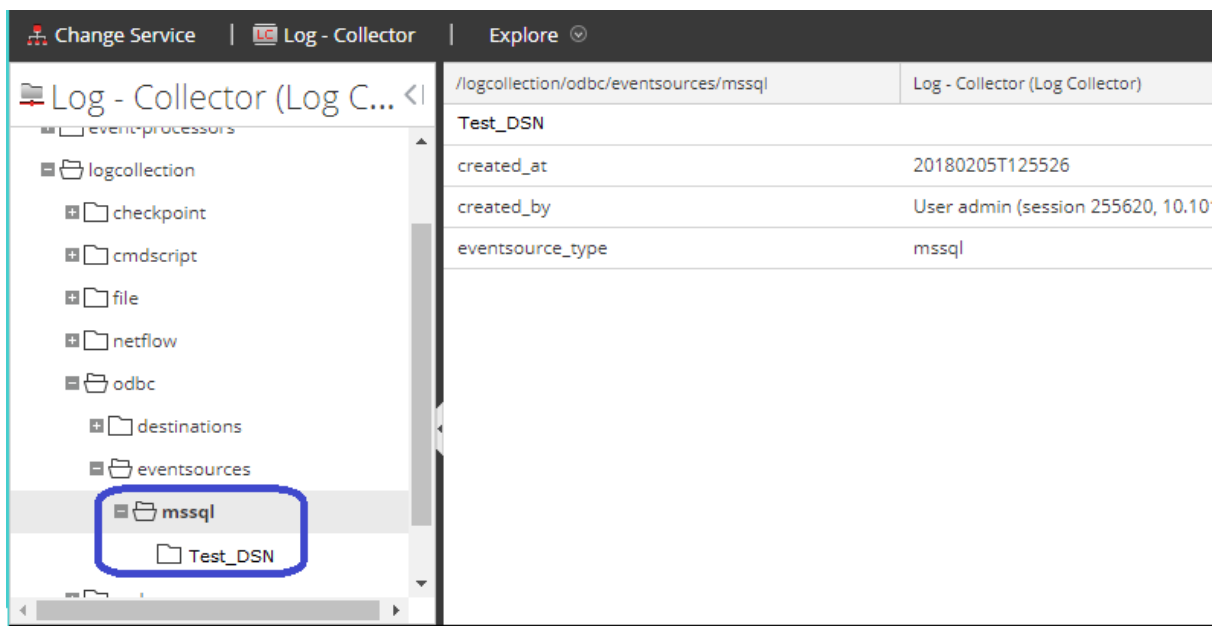
### To view or set this parameter:

1. Go to **ADMIN > Services**.
2. In the **Services** grid, select a **Log Collector** service.
3. Click  under **Actions** and select **View > Explore**.
4. Navigate to **logcollection > odbc > eventsources**.

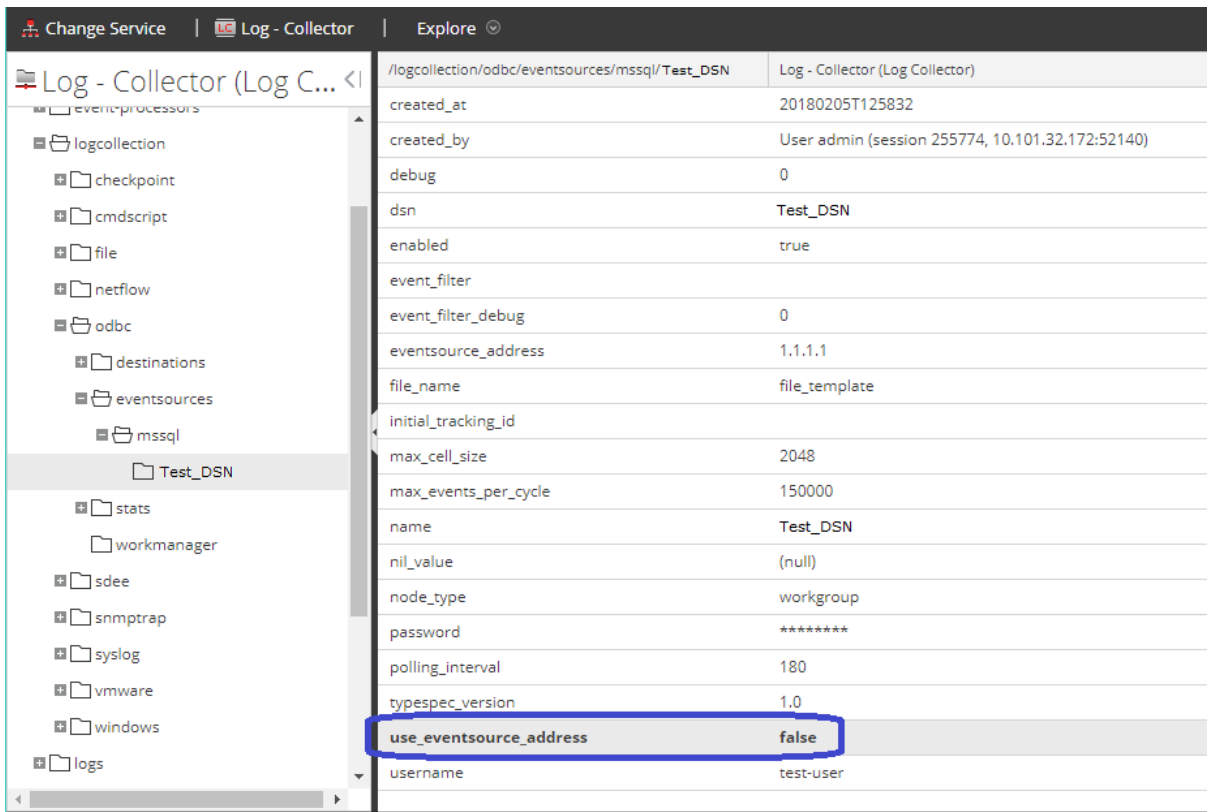
There are entries for each ODBC event source that you have configured in NetWitness. For example, for this installation, the only ODBC event source currently configured is MS SQL:



- Click + next to an event source to expand it and see its DSN entry.



- Click the DSN entry (in this example **Test\_DSN**) to show the parameters.
- The **use\_eventsource\_address** parameter is listed.



- **False:** actual source IP address is used. This is the default value.
- **True:** event source IP address is used.

8. Click on the value (in this case **False**), and type in the new value.

**Note:** If you type anything other than **true** or **false** (case does not matter), you receive an error saying that the value you entered cannot be set.

Any changes you make take effect immediately.

## Create Custom Typespec for ODBC Collection

This topic tells you how to create a custom typespec for the Log Collector. The topic includes:

- Create Custom typespec procedure
- ODBC Collection typespec syntax
- Sample ODBC Collection typespec files

### Create Custom Typespec

**To create a custom typespec file:**

1. Open an SFTP client (for example, WinSCP) and connect to a Log Collector or remote Log Collector.

2. Navigate to `/etc/netwitness/ng/logcollection/content/collection/odbc`, and copy an existing file, for example **bit9.xml**.
3. Modify the file according to your requirements. See [ODBC Collection Typespec Syntax](#) for details.
4. Rename and save the file to the same directory.
5. Restart the Log Collector.

**Note:** You will not be able to see new Event Source type in NetWitness Platform until you restart the Log Collector.

### ODBC Collection Typespec Syntax

The following table describes the typespec parameters.

Parameter	Description
name	The display name of your ODBC event source (for example, <b>activeidentity</b> ). NetWitness Platform displays this name in the <b>Sources</b> panel of the <b>View &gt; Config &gt; Events Sources</b> tab.  Valid value is an alphanumeric string. You cannot use - (dashes), _ (underscores), or spaces. The name must be unique across all typespec files in the folder.
type	Event source type: <b>odbc</b> . Do not modify this line.
prettyName	User-defined name for the event source. You can use the same value as <code>name</code> (for example, <code>apache</code> ) or use a more descriptive name.
version	Version of this typespec file. Default value is 1.0.
author	Person who created the typespec file. Replace author-name with your name.
description	Formal description of the event source. Replace formal-description with your description of the event source.
<device> Section	
parser	This optional parameter contains the name of the log parser. This value forces the Log Decoder to use the specified log parser when parsing logs from this event source.  <b>Note:</b> Please leave the field blank when unsure of the log parser to be used.
name	Name your ODBC event source (for example, <b>ActivIdentity ActivCard AAA Server</b> ).
maxVersion	The version number of the event source (for example, <b>6.4.1</b> ).
description	Description of the event source.
<collection> Section	
odbc	The syntax under <code>&lt;odbc&gt;</code> is used for event collection and processing. You can provide multiple queries for the same event source type by adding <code>&lt;query&gt;</code> tags.

Parameter	Description
query	This section contains the details of the query used to collect information from the event source.
tag	The prefix tag you want to add to events during transformation (for example <b>ActivIdentity</b> ).
outputDelimiter	Specify the delimiter to use to separate fields. Specify any of the following values: <ul style="list-style-type: none"> <li>   (piping)</li> <li>^ (caret)</li> <li>, (comma)</li> <li>: (colon)</li> <li>0x20 (to represent a space)</li> </ul>
interval	Specify the number of seconds between events. Default value is <b>60</b> .
dataQuery	Specify the query to fetch data from the ODBC eventsource database for SQL-syntax. For example: <pre>SELECT acceptedrejected, servername, serveripa, sdate, millisecond, suid, groupname, ipa, reason, info1, info2, threadid FROM A_AHLOG WHERE sdate &gt; '%TRACKING%' ORDER BY sdate</pre>
maxTrackingQuery	The query used on the initial pull of events to identify the starting point within the data set to begin pulling logs from. After the initial pull, this query is no longer used, unless the <b>maxTracking</b> value has been reset or altered. For example: <pre>SELECT MAX(Event_Id) from ExEvents</pre>
trackingColumn	The tracking column value used when the ODBC collector pulls a new set of events.

### Sample ODBC Collection Typespec Files

The following sample is the typespec file for the IBM ISS SiteProtector event source.

```
<?xml version="1.0" encoding="UTF-8"?>
<typespec>

  <name>siteprotector4_x</name>
  <type>odbc</type>
  <prettyName>SITEPROTECTOR4_X</prettyName>
  <version>1.0</version>
  <author>Administrator</author>
  <description>Collects events from SiteProtector</description>

  <device>
    <name>Internet Security Systems, Inc. RealSecure SiteProtector v 2.0</name>
    <maxVersion>2.0</maxVersion>
```



```
<description></description>
  <parser>iss</parser>
</device>

<configuration>
</configuration>

<collection>
  <odbc>
    <query>
      <tag></tag>
      <outputDelimiter></outputDelimiter>
      <interval></interval>
      <dataQuery></dataQuery>
      <maxTrackingQuery></maxTrackingQuery>
      <trackingColumn></trackingColumn>
      <levelColumn></levelColumn>
      <eventIdColumn></eventIdColumn>
      <addressColumn></addressColumn>
    </query>
  </odbc>
</collection>
</typespec>
```

The following sample is the typespec file for the Bit9 Security Platform event source.

```
<?xml version="1.0" encoding="UTF-8"?>
<typespec>

  <name>bit9</name>
  <type>odbc</type>
  <prettyName>BIT9</prettyName>
  <version>1.0</version>
  <author>Administrator</author>
  <description>Bit9 Events</description>

  <device>
    <name>Bit9</name>
    <parser>bit9</parser>
  </device>

  <configuration>
  </configuration>
```

```
<collection>
  <odbc>
    <query>
      <tag>BIT9</tag>
      <outputDelimiter>||</outputDelimiter>
      <interval>10</interval>
      <dataQuery>
        SELECT
        Timestamp,
        Event_Id,
        Computer_Id,
        File_Catalog_Id,
        Root_File_Catalog_Id,
        Priority,
        Type,
        Subtype,
        IP_Address,
        User_Name,
        Process,
        Description
        FROM
        ExEvents
        WHERE
        Event_Id > '%TRACKING%'
      </dataQuery>
      <trackingColumn>Event_Id</trackingColumn>
      <maxTrackingQuery>SELECT MAX(Event_Id) from ExEvents</maxTrackingQuery>
      <eventIdColumn></eventIdColumn>
    </query>
  </odbc>
</collection>
</typespec>
```

## Troubleshoot ODBC Collection

You can troubleshoot problems and monitor ODBC collection by reviewing the ODBC collector log informational, warning, and error messages to during execution of collection.

Each ODBC log messages includes the:

- Timestamp
- Category: debug, info, warning, or failure
- collection method = OdbcCollection
- ODBC event source type (GOTS-name) = Generic ODBC Type Specification name that you configured for the event source.
- collection function completed or attempted (for example, [processing])
- ODBC event source name (DSN-name) = Data Source Name that you configured for the event source.
- description (for example, how many events the Log Collector collected)
- tracking ID = the Log Collector position in the target database table.

The following example illustrates the message you would receive upon successful collection of an ODBC event:

```
2014-July-25 17:21:25 info (OdbcCollection) : [event-source] [processing]
[event-source] Published 100 ODBC events: last tracking id: 2014-July-25
13:22:00.280
```


The following example illustrates a message you may receive upon unsuccessful collection of an ODBC event:

<b>Log Message</b>	timestamp failure (OdbcCollection: [event-source] [processing] [event-source-type] Failed during doWork: Unable to prepare statement: state: S0002; error-code:208; description: [RSA] [ODBC-driver] [event-source-type]Invalid object name 'object-name'.
<b>Possible Cause</b>	ODBC collection failed while accessing the ODBC Driver or the target database.
<b>Solutions</b>	Validate the DSN value pairs for the events source.

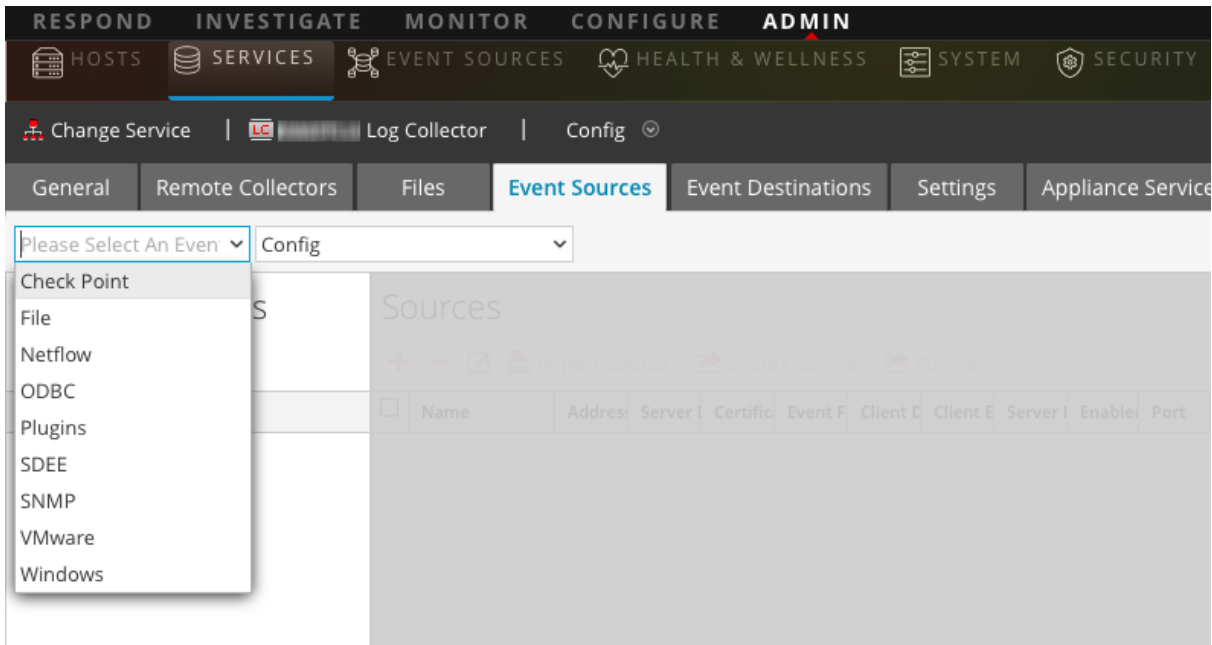
## Configure SDEE Event Sources in NetWitness Platform

This topic tells you how to configure the SDEE collection protocol.


### To add an SDEE Event Source:

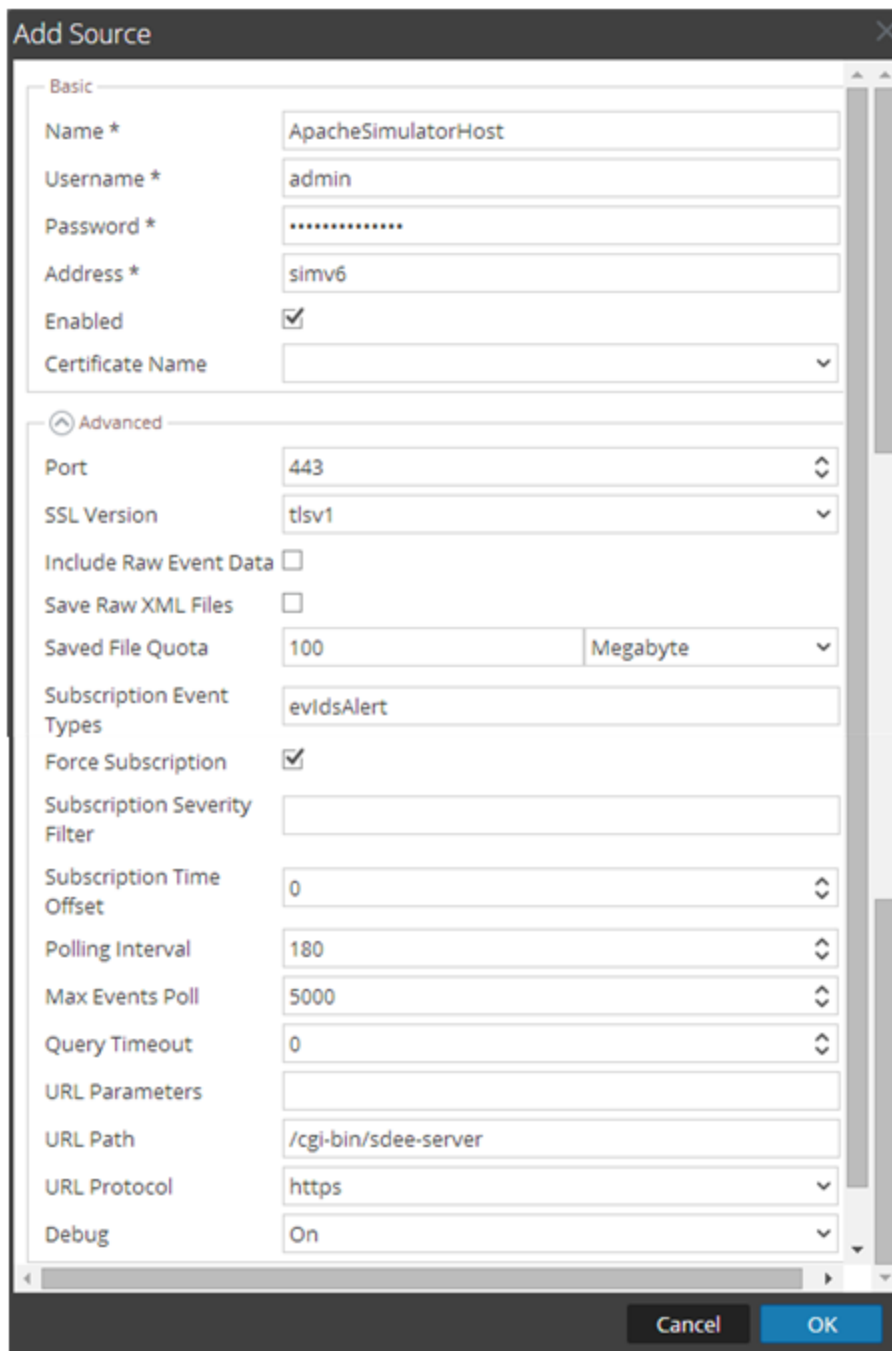
1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.

- Click the **Event Sources** tab.



- In the **Event Sources** tab, select **SDEE/Config** from the drop-down menu.  
The Event Categories panel displays the SDEE event sources that are configured, if any.
- In the **Event Categories** panel toolbar, click **+**.  
The **Available Event Source Types** dialog is displayed.
- Select an event source type and click **OK**.  
The newly added event source type is displayed in the **Event Categories** panel.

8. Select the new type in the Event Categories panel and click  in the Sources panel toolbar. The Add Source dialog is displayed.



The Add Source dialog box is shown with the following fields and values:

Basic	
Name *	ApacheSimulatorHost
Username *	admin
Password *	.....
Address *	simv6
Enabled	<input checked="" type="checkbox"/>
Certificate Name	

Advanced	
Port	443
SSL Version	tlsv1
Include Raw Event Data	<input type="checkbox"/>
Save Raw XML Files	<input type="checkbox"/>
Saved File Quota	100 Megabyte
Subscription Event Types	evidsAlert
Force Subscription	<input checked="" type="checkbox"/>
Subscription Severity Filter	
Subscription Time Offset	0
Polling Interval	180
Max Events Poll	5000
Query Timeout	0
URL Parameters	
URL Path	/cgi-bin/sdee-server
URL Protocol	https
Debug	On

Buttons: Cancel, OK

9. Add a Name, Username, Address, and Password, and modify any other parameters that require changes, and click **OK**.


## Configure SNMP Event Sources in NetWitness Platform

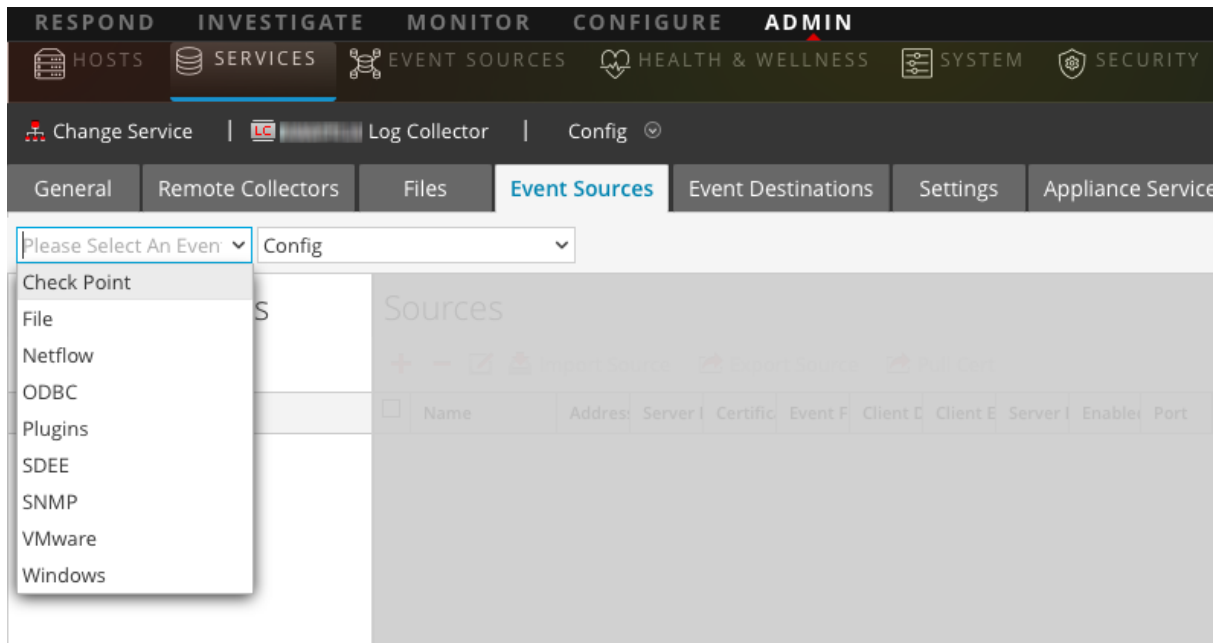
This topic tells you how to configure the SNMP collection protocol.


### Configure the SNMP Trap Event Source


To add the SNMP Event Source:

**Note:** If you have previously added the **snmptrap** type, you cannot add it again. You can edit it, or manage users.

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.




5. In the **Event Sources** tab, select **SNMP/Config** from the drop-down menu.
6. In the **Event Categories** panel toolbar, click  .  
The **Available Event Source Types** dialog is displayed.
7. Select the **snmptrap** event source type and click **OK**.  
The newly added event source type is displayed in the **Event Categories** panel.
8. Select **snmptrap** in the Event Categories panel.

9. Select **snmptrap** in the Sources panel and then click the Edit icon, , to edit the parameters.
10. Update any of the parameters that you need to change and click **OK**.


## (Optional) Configure SNMP Users

If you are using SNMPv3, follow this procedure to update and maintain the SNMP v3 users.

### To configure SNMPv3 Users:

1. Go to **Admin > Services**.
2. In the **Services** grid, select a **Log Collector** service.
3. Click  under **Actions** and select **View > Config**.
4. In the Log Collector **Event Sources** tab, select **SNMP/SNMP v3 User Manager** from the drop-down menu.

The SNMPv3 User panel is displayed with the existing users, if any.

5. Click  to open the **Add SNMP User** dialog.
6. Fill in the dialog with the necessary parameters. The available parameters are described below.

## SNMP User Parameters

The following table describes the parameters that you need to enter when you create an SNMPv3 user.

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Parameter	Description
Username *	User name (or more accurately in SNMP terminology, security name). NetWitness Platform uses this parameter and the <b>Engine ID</b> parameter to create a user entry in the SNMP engine of the collection service.  The <b>Username</b> and <b>Engine ID</b> combination must be unique (for example, <b>logcollector</b> ).
Engine ID	(Optional) Engine ID of the event source. For all event sources sending SNMP v3 traps to this collection service, you must add the username and engine id of the sending event source.  For all event sources sending SNMPv3 informs, you must add just the username with a blank engine id.

Parameter	Description
Authentication Type	<p>(Optional) Authentication protocol. Valid values are as follows:</p> <ul style="list-style-type: none"> <li>• <b>None</b> (default) - only security level of <b>noAuthNoPriv</b> can be used for traps sent to this service</li> <li>• <b>SHA</b> - Secure Hash Algorithm</li> <li>• <b>MD5 - Message Digest Algorithm</b></li> </ul> <div> <b>IMPORTANT: DO NOT USE:</b> do not select MD5, as it conflicts with the Log Collector running in FIPS mode. </div>
Authentication Passphrase	Optional if you do not have the <b>Authentication Type</b> set. Authentication passphrase.
Privacy Type	<p>(Optional) Privacy protocol. You can only set this parameter if Authentication Type parameter is set. Valid values are as follows:</p> <ul style="list-style-type: none"> <li>• <b>None</b> (default)</li> <li>• <b>AES</b> - Advanced Encryption Standard</li> <li>• <b>DES - Data Encryption Standard</b></li> </ul> <div> <b>IMPORTANT: DO NOT USE:</b> do not select DES, as it conflicts with the Log Collector running in FIPS mode. </div>
Privacy Passphrase	Optional if you do not have the <b>Privacy Type</b> set. Privacy passphrase.
Close	Closes the dialog without adding the SNMPv3 user or saving modifications to the parameters.
Save	Adds the SNMPv3 user parameters or saves modifications to the parameters.

## Configure Syslog Event Sources for Remote Collector

This topic tells you how to configure Syslog event sources for the Log Collector.


**Note:** You do not configure Syslog Collection for Local Log Collectors. You only need to configure Syslog Collection for Remote Collectors.

### Configure a Syslog Event Source

Syslog listeners for UDP on port 514, TCP on port 514 and SSL on port 6514 are created by default. You should not change the SSL settings on the TCP and SSL listeners. If you need SSL certificate verification, create a new event source type to listen on a different port. Please note that **iptables** needs to be configured to open that port.





**To configure the Remote Log Collector for Syslog collection:**

1. Go to **ADMIN > Services**.
2. In the Services grid, select a Remote Log Collector, and from the Actions menu, choose  > **View > Config**.
3. Select the **Event Sources** tab.
4. Select **Syslog/Config** from the drop-down menu.

The Event Categories panel displays the Syslog event sources that are configured, if any.

**Note:** For RSA NetWitness Platform, some Syslog event sources are available by default. In this case, you can proceed to step 6.

5. In the Event Categories panel toolbar, click  .  
The Available Event Source Types dialog is displayed.
6. Select either **syslog-tcp** or **syslog-udp**. You can set up either or both, depending on the needs of your organization.
7. Select the new type in the Event Categories panel and click  in the Sources panel toolbar.  
The Add Source dialog is displayed.
8. Enter the port number, and select **Enabled**. Optionally, configure any of the Advanced parameters as necessary.

Click **OK** to accept your changes and close the dialog box.

Once you configure one or both syslog types, the Log Decoder or Remote Log Collector collects those types of messages from all available event sources. So, you can continue to add Syslog event sources to your system without needing to do any further configuration in RSA NetWitness Platform.

**Syslog Parameters**

The following tables describe the available basic and advanced parameters for Syslog configuration.

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

**Basic Parameters**

Name	Description
Port*	Default port is <b>514</b> .
Enabled	Select the check box to enable the event source configuration to start collection. The check box is selected by default.
SSL Receiver	<p><b>Note:</b> This parameter applies to RSA NetWitness® Platform version 11.1 and newer. It is available only for the <b>syslog-tcp</b> Event Category.</p> <p>If you select the check box, the event source accepts SSL/TLS connections only. Also, if you change this setting, you must stop and restart Syslog collection for the change to become effective.</p>

## Advanced Parameters

Name	Description
Inflight Publish Log Threshold	<p>Establishes a threshold that, when reached, NetWitness generates a log message to help you resolve event flow issues. The Threshold is the size of the syslog event messages currently flowing from the event source to NetWitness.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>0</b> (default) - disables the log message</li> <li>• <b>100-100000000</b> - generates log message when the syslog event messages currently flowing from the event source to NetWitness are within the 100 to 100000000 byte range.</li> </ul>
Maximum Receivers	<p>Maximum number of receiver resources used to process collected syslog events. The default value is <b>2</b>.</p>
Event Filter	<p>Select a filter.</p> <p>Please refer to <a href="#">Configure Event Filters for a Collector</a> for instructions on how to define filters.</p>
Debug	<div> <p><b>Caution:</b> 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> </div> <p>Enables or disables debug logging for the event source.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Off</b> = (default) disabled</li> <li>• <b>On</b> = enabled</li> <li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>

Name	Description
SSL Verify Mode	<p><b>Note:</b> This parameter applies to RSA NetWitness® Platform version 11.1 and newer. It is available only for the <b>syslog-tcp</b> Event Category.</p> <p>This setting is relevant only if the <b>SSL Receiver</b> setting is selected. If you change the SSL Verify Mode, you must stop and restart Syslog collection for the change to become effective.</p> <p>Available options:</p> <ul style="list-style-type: none"> <li>• <b>verify-none:</b> (default) The server does not verify the client's certificate, if any. A client can connect without presenting a certificate.</li> <li>• <b>verify-peer:</b> The server verifies the client's certificate, if any. A client can connect without presenting a certificate.</li> </ul> <p><b>Note:</b> If verification fails, a warning is logged but the messages will still be accepted.</p> <ul style="list-style-type: none"> <li>• <b>verify-peer-fail-if-no-cert:</b> The client must present a certificate and the server will verify it.</li> </ul> <p><b>Note:</b> If you use this mode, the client's CA certificate <i>must</i> be uploaded to the Log Collector's truststore using the REST API at <code>http://LC-ip-address:50101/sys/caupload</code></p>

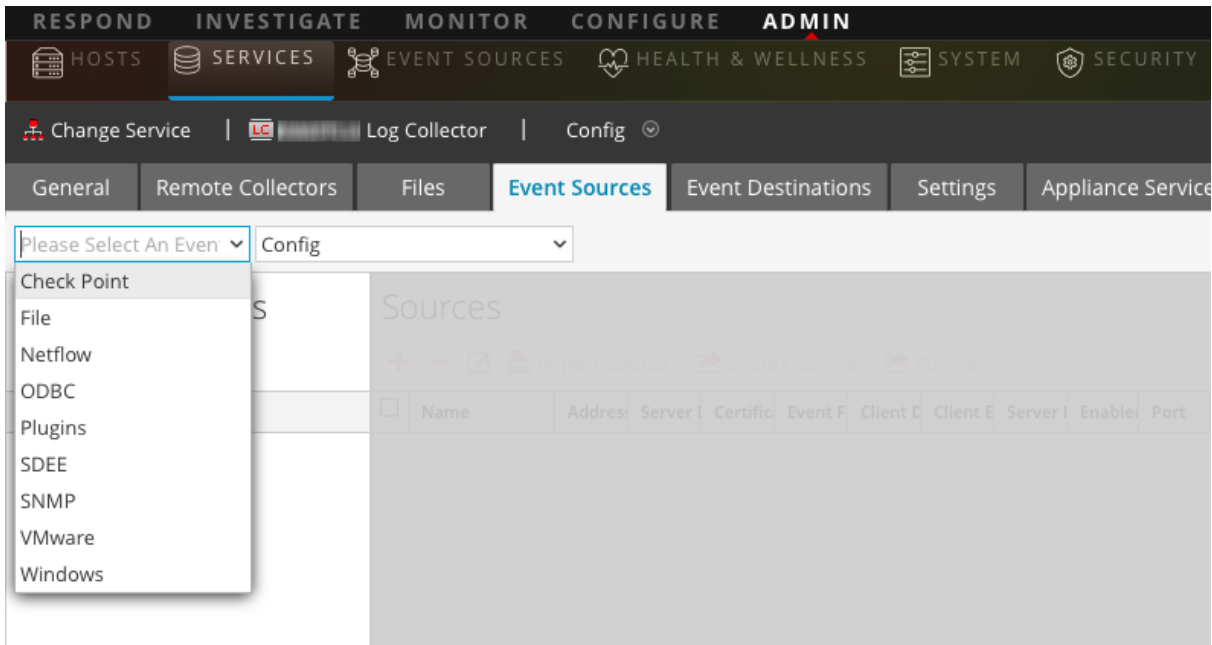
## Configure VMware Event Sources in NetWitness Platform

This topic tells you how to configure the VMware collection protocol.

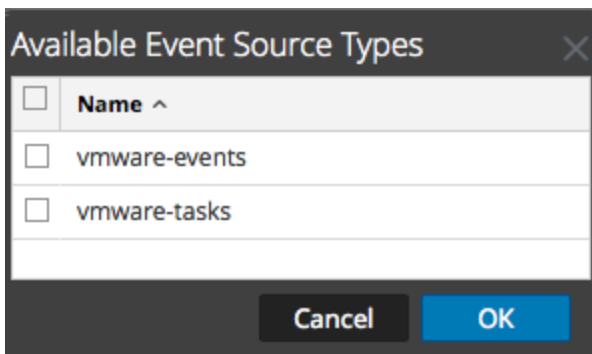
### To add a VMware Event Source:

1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.

- Click the **Event Sources** tab.



- In the Log Collector **Event Sources** tab, select **VMware/Config** from the drop-down menu. The Event Categories panel displays the VMware event sources that are configured, if any.
- Click **+** to open the **Available Event Source Types** dialog.



- Select **vmware-events** or **vmware-tasks** from the Available Event Source Types dialog and click **OK**.

The VMware available event source types are as follows:

- vmware-events:** Setup vmware-events to collect events from vCenter Servers and ESX/ESXi servers.
- vmware-tasks:** (Optional) Setup vmware-tasks to collect tasks from vCenter Servers.

- Select the new type in the Event Categories panel, and click **+** in the Sources toolbar.
- Add a Name, Username and Password, and modify any other parameters that require changes.

**Caution:** If you need to enter the domain name as part of the Username, you must use a double-backslash as a separator. For example, if the domain\username is corp\smithj, you must specify **corp\\smithj**.

10. Click **OK** to save your changes.

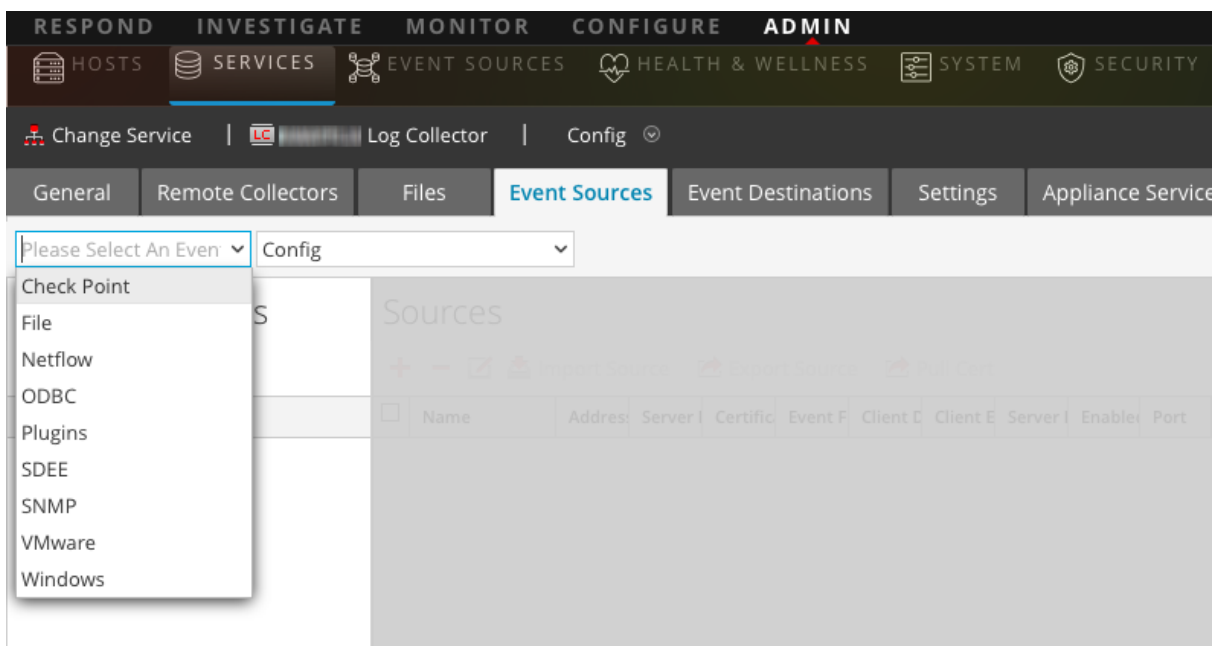
## Configure Windows Event Sources in NetWitness Platform


This topic tells you how to configure the Windows collection protocol.

In RSA NetWitness Platform, you need to configure the Kerberos Realm, and then add the Windows Event Source type.

### To configure the Kerberos Realm for Windows collection:

1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.




5. Select **Windows/Kerberos Realm** from the drop-down menu.
6. In the Kerberos Realm Configuration panel toolbar, click  to add a new realm. The Add Kerberos Domain dialog is displayed.

7. Fill in the parameters, using the guidelines below.

Parameter	Details
Kerberos Realm Name	Enter the realm name, in all caps. For example, DSNETWORKING.COM. Note that the Mappings parameter is automatically filled with variations on the realm name.
KDC Host Name	Enter the name of the Domain Controller. <b>Do not</b> use a fully qualified name here: just the host name for the DC.  <b>Note:</b> Make sure that the log collector is configured as a DNS client for the corporate DNS server. Otherwise, the Log Collector will not know how to find the Kerberos Realm.
Admin Server	(Optional) The name of the Kerberos Administration Server in FQDN format.
Mappings	This parameter is automatically filled after you enter the realm name.

8. Click **Save** to add the Kerberos domain.


#### To add a Windows Event Source:

1. Go to **ADMIN > Services**.
2. Select a Log Collection service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.
5. In the Log Collector **Event Sources** tab, select **Windows/Config** from the drop-down menu.

The Event Categories panel displays the VMware event sources that are configured, if any.

Next, continue from the current screen to add a Windows Event Category and type.

#### To configure the Windows Event Type:

1. Select **Windows/Config** from the drop-down menu.
2. In the Event Categories panel toolbar, click  to add a source.

The Add Source dialog is displayed.

3. Fill in the parameters, using the guidelines below.

Parameter	Details
Alias	Enter a descriptive name.
Authorization Method	Choose <b>Negotiate</b> .
Channel	For most event sources that use Windows collection, you want to collect from the <b>Security</b> , <b>System</b> , and <b>Application</b> channels.
User Name	Enter the account name for the Windows user account that you set up earlier for communicating with NetWitness. Note that you need to enter the full account name, which includes the domain. For example, <code>rsalog@DSNETWORKING.COM</code> .
Password	Enter the correct password for the user account.
Max Events Per Cycle	(Optional). RSA recommends that you set this value to 0, which collects everything.
Polling Interval	(Optional). For most users, a value of <b>60</b> should work well.

4. Click **OK** to add the source.

The newly added Windows event source is displayed in the Event Categories panel.

5. Select the new event source in the Event Categories panel.

The **Hosts** panel is activated.

6. Click  in the Hosts panel toolbar.

7. Fill in the parameters, using the guidelines below.

Parameter	Details
Event Source Address	Enter the IP address for the Windows host.
Port	Accept the default value, <b>5985</b> .
Transport Mode	Enter <b>http</b> .
Enabled	Ensure the box is checked.

8. Click **Test Connection**.

**Note:** You should be able to successfully test the connection, even if the Windows service is not running.

For more information on any of the previous steps, see the following Help topics in the NetWitness Platform User Guide:

- Configure Windows Collection: <https://community.rsa.com/docs/DOC-43410>
- Microsoft WinRM Configuration Guide: <https://community.rsa.com/docs/DOC-58163>
- Test and Troubleshoot Microsoft WinRM Guide: <https://community.rsa.com/docs/DOC-58164>

## Windows Legacy and NetApp Collection Configuration

This **Windows Legacy** protocol collects events from Windows Legacy (Windows 2003 or earlier event sources) and CIFS Auditing events from NetApp ONTAP event sources.

You must deploy Log Collection, that is set up a Local Collector and Windows Legacy Remote Collector, before you can configure the Windows Legacy collection protocol.

### How Legacy Windows and NetApp Collection Works

You use the Windows Legacy collection protocol to configure NetWitness Platform to collection events from:

- Legacy Microsoft Windows event sources (Window 2003 and earlier event sources)
- NetApp event sources

#### Window 2003 and Earlier Event Sources

Legacy Windows event sources are older Windows versions (such as Windows 2000 and Window 2003). The Windows Legacy collection protocol collects from Windows event sources that are already configured for enVision collection without having to reconfigure them. You set up these event sources under the windows event source type.

#### NetApp Event Sources

NetApp appliances running Data ONTAP support a native auditing framework that is similar to Windows Servers. When configured, this auditing framework generates and saves audit events in Windows.evt file format. The Windows Legacy collection protocol supports collection of events from such NetApp.evt files. You set up these event sources under the netapp\_evt event source type.

The NetApp Data ONTAP appliance is configured to generate CIFS Auditing events and save them periodically as.evt files in a format that includes the timestamp in the filename. Refer to the [Network Appliance Data ONTAP Event Source Configuration Guide](#) on RSA Link for details. The collection protocol saves the timestamp of the last processed.evt filename to keep track of collection status.

#### Net App Specific Parameters

Most of the parameters that you maintain in Add/Edit Source dialog apply to both Windows Legacy and Net App events sources.

The following two parameters are unique to NetApp event sources.

- **Event Directory Path** - The NetApp appliance generates event data and saves it in.evt files in a shareable directory on the NetApp appliance. NetWitness Platform requires you to specify this directory path in the Event Directory Path parameter
- **Event File Prefix** - Similar to the Event Directory Path, NetWitness Platform requires you to specify the prefix (for example, adtlog.) of the event data.evt files so that NetWitness Platform can process this data.

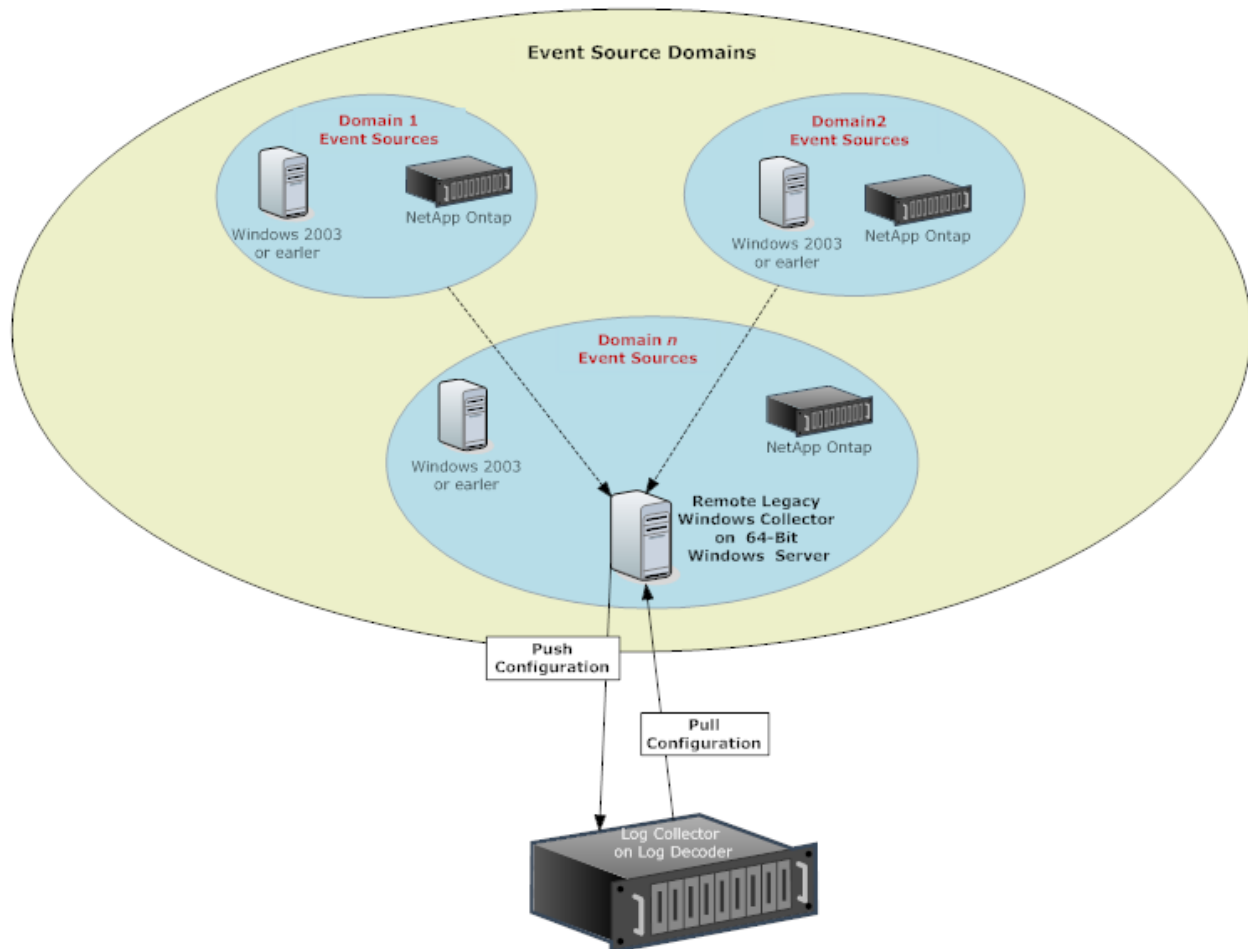
In each polling cycle, NetWitness Platform browses the configured NetApp shared path for the .evt files that you identified with the Event Directory Path and Event File Prefix parameters. NetWitness Platform:



- Sorts Files matching the event-file-prefix.YYMMDDhhmmss.evt format in ascending order.
- Uses the timestamp of the last file processed to determine the files that still need processing. If NetWitness Platform finds a partially processed file, it skips the events already processed.

## Deployment Scenario

The Windows Legacy collection protocol collects event data from Windows 2003 or earlier, and NetApp ONTAP appliance, event sources. The Windows Legacy Remote Collector is the SA Legacy Windows Collector installed on physical or virtual Windows 2008 64-bit server in your event source domain.



## Set Up the Windows Legacy Collector

This topic tells you where to find the executable and instructions required to install or upgrade the Windows Legacy collector in your Windows Legacy domain or domains.

You install the NetWitness Platform Windows Legacy collector on a physical or virtual Windows 2008 R2 SP1 64-Bit server using the **NWLegacyWindowsCollector-11.version-number.exe**. You download the **NWLegacyWindowsCollector-11.version-number.exe** from RSA Link. Please refer to the *NetWitness 11.x Windows Legacy Collection Upgrade & Installation Instructions* for the details on how to install or upgrade Windows Legacy collection.

**Note:** The Microsoft Management Console (MMC) should be closed during the installation process.

## Configure Windows Legacy and NetApp Event Sources

This topic tells you how to configure Windows Legacy event sources in NetWitness Platform.



The Windows Legacy collection protocol collects event data from Windows 2003 or earlier event sources, and from NetApp event sources.

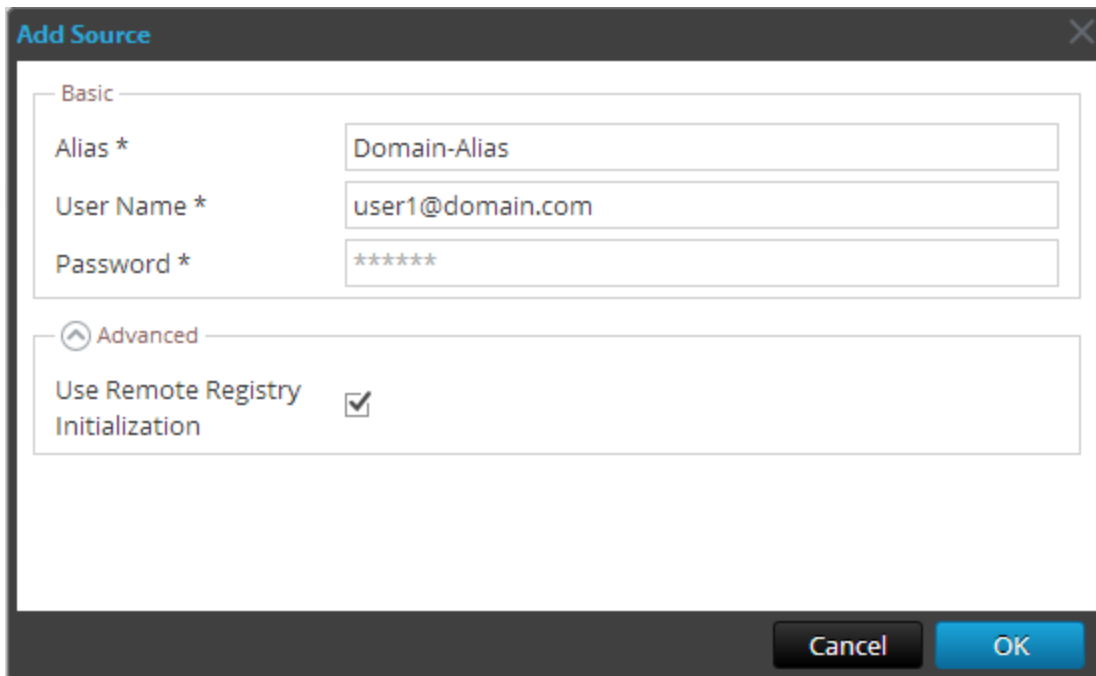
### Prerequisites

Before you configure a Windows Legacy event source, make sure that you have:

1. Installed the NetWitness Platform Windows Legacy Remote Collector on a physical or virtual Windows 2008 64-bit server.
2. Added this Windows Legacy Remote Collector to NetWitness Platform.

### Add a Windows Legacy Event Source

1. Access the Services view by selecting **Admin > Services** from the NetWitness Platform menu.
2. In the **Services** grid, select a **Windows Legacy Log Decoder** service.
3. Under Actions, select  > **View > Config** to display the Log Collection configuration parameter tabs.
4. Click the **Event Sources** tab.
5. In the **Event Sources** tab, select one of the following options from the drop-down menu.
  - Windows Legacy/Windows.
  - Windows Legacy/NetApp.
6. Configure the alias:
  - a. Click  in the **Event Categories** panel toolbar.  
The **Add Source** dialog is displayed.
  - b. Specify values for the parameters and click **OK**.

The image shows a dialog box titled "Add Source" with a close button (X) in the top right corner. It has two sections: "Basic" and "Advanced". The "Basic" section contains three text input fields: "Alias \*" with the value "Domain-Alias", "User Name \*" with the value "user1@domain.com", and "Password \*" with the value "\*\*\*\*\*". The "Advanced" section is collapsed, indicated by an upward arrow icon, and contains a checkbox labeled "Use Remote Registry Initialization" which is checked. At the bottom right of the dialog are "Cancel" and "OK" buttons.

**Add Source**

Basic

Alias \* Domain-Alias

User Name \* user1@domain.com

Password \* \*\*\*\*\*


Advanced

Use Remote Registry Initialization ☒

Cancel OK

**Note:** By default, **Remote Registry Initialization** is selected. For details, see [Remote Registry Access](#) below.

The newly added windows event source type is displayed in the **Event Categories** panel.

7. Add the event source:
  - a. Select the new alias in the **Event Categories** panel and click  in the **Source** panel toolbar.  
The **Add Source** dialog is displayed.
  - b. Specify values for the event source parameters and click **OK**.

**Add Source**

**Basic**

Name \* Domainsource

Event Source Address \*

Event Log Name \* Security

Enabled ☒

**Advanced**

Event Buffer Size 100 Kilobyte

Event Too Large Result fail

Maximum Event Data 16 Kilobyte

Max Events Per Cycle 0

Polling Interval 180

Debug Off

Cancel OK

For details, see [Windows Legacy Configuration Parameters](#) below.

The newly added Windows event source is displayed in the **Event Categories** panel.

	Name	Event Source Address	Event Log Name	Event	Event Buffer Size	Maximum Event Data
<input checked="" type="checkbox"/>	Domainsource		Security	fail	100 KB	16 KB

### Remote Registry Access


Windows Legacy Collector performs an initial verification of the event source before collecting data. By default, Windows Legacy Collector uses Windows Management Instrumentation (WMI) method to perform this initial verification. If you enable Remote registry access method, Windows Legacy Collector performs a remote registry query to verify the event source.

### Configure Push or Pull between Log Collector and Windows Legacy Collector

You can configure the Windows Legacy Collector to push event data to a Local Collector, or you can configure a Local Collector to pull event data from the Windows Legacy Collector.

#### To configure a Local Collector or the Windows Legacy Collector:

1. Go to **ADMIN > Services**.
2. Select a Local Collector or the Windows Legacy Collection service.

3. Under Actions, select  > **View** > **Config** to display the Log Collection configuration parameter tabs.
4. Depending on your selection in step 2:
  - If you selected a Local Collector, the **Remote Collectors** tab is displayed. Select the Windows Legacy Collector from which the Local Collector pulls events in this tab.
  - If you selected a Windows Legacy Collector, the **Local Collectors** are displayed. Select the Local Collectors to which the Windows Legacy Collector pushes events in this tab.

### Windows Legacy Configuration Parameters

The following table describes the basic parameters for a Windows Legacy event source.

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Feature	Description
Name*	The name of the event source. Valid value is a name in the [_a-zA-Z] [_a-zA-Z0-9]* range. You can use a dash "-" as part of the name.
Event Source Address*	IP address of the event source. Valid value is an IPv4 address, IPv6 address, or a hostname including a fully qualified domain name. NetWitness Platform defaults to <b>127.0.0.1</b> . Log Collector converts the hostname to lower-case letters to prevent duplicate entries.
Event Log Name	The name of the event log from which to collect event data (for example, <b>System</b> , <b>Application</b> , or <b>Security</b> ). The following are examples of some of these channels: <ul style="list-style-type: none"> <li>• <b>System</b> - applications that run under system service accounts (installed system services), drivers, or a component or application that has events that relate to the health of the system.</li> <li>• <b>Application</b> - all user-level applications. This channel is unsecured and it is open to any application. If an application has extensive information, you should define an application-specific channel for it.</li> <li>• <b>Security</b> - the Windows Audit Log (event log) used exclusively for the Windows Local Security Authority.</li> </ul>
Enabled	Select this checkbox to collect from this event source. If you do not check this checkbox, the Log Collector does not collect events from this event source.
Event Directory Path	NetApp .evt or .evtx files directory path. This must be the UNC path. The NetApp generates event data and saves it in .evt or .evtx files in a shareable directory on the NetApp appliance. <ul style="list-style-type: none"> <li>• In each polling cycle, Log Collector browses the configured NetApp shared path for the .evt files that you identified with the <b>Event Directory Path</b> and <b>Event File Prefix</b> parameters. Log Collector :               <ul style="list-style-type: none"> <li>◦ sorts files that match the <b>event-file-prefix.YYMMDDhhmmss.evt</b> format in ascending order.</li> <li>◦ uses the timestamp of the last file processed to determine the files that still need processing. If Log Collector finds a partially processed file, it skips the events already processed.</li> </ul> </li> <li>• In each polling cycle, Log Collector browses the configured NetApp shared path for the .evtx files that you identified with the <b>Event Directory Path</b> and <b>Event File Prefix</b> parameters. Log Collector :               <ul style="list-style-type: none"> <li>◦ sorts files that match the <b>event-file-prefix.YYMMDDhhmmssms.evtx</b> format in ascending order.</li> <li>◦ uses the timestamp of the last file processed to determine the files that still need processing. If Log Collector finds a partially processed file, it skips the events already processed.</li> </ul> </li> </ul>
Event File Prefix	Prefix of the .evt files (for example, <b>adtlog</b> .) saved in the <b>Event Directory Path</b> .

Feature	Description
Cancel	Closes the dialog without adding the Windows Legacy event source.
OK	Adds the current parameter values as a new event source

The following table describes the advanced parameters for a Windows Legacy event source.

Feature	Description
Event Buffer Size	Maximum size of the data the Log Collector pulls from the event source for each request. Valid value is a number in <b>0</b> to <b>511</b> Kilobytes range. You specify this value in <b>Kilobytes</b> .
Event Too Large Result	Tells Log Collector what to do if an event is too large for the event buffer.
Maximum Event Data	Maximum size of event data to include in the output. Valid value is a number in <b>0</b> to <b>511</b> Kilobytes range. You specify this value in <b>Kilobytes</b> or <b>Megabytes</b> . <ul style="list-style-type: none"> <li>1 Kilobyte - 100 Megabytes</li> <li>0 = do not include event data in the output.</li> </ul>
Max Events Per Cycle	The maximum number of events per polling cycle (how many events collected per polling cycle).
Polling Interval	Interval (amount of time in seconds) between each poll. The default value is <b>180</b> . For example, if you specify 180, the collector schedules a polling of the event source every 180 seconds. If the previous polling cycle is still underway, it will wait for it to finish that cycle. If you have a large number of event sources that you are polling, it may take longer than 180 seconds for the polling to start because the threads are busy.
Debug	<div> <b>Caution:</b> 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. </div> <p>Enables or disables debug logging for the event source. Valid values are:</p> <ul style="list-style-type: none"> <li><b>Off</b> = (default) disabled</li> <li><b>On</b> = enabled</li> <li><b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <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). Limit the number of event sources for which you use Verbose debugging to minimize performance impact.</p>

## Troubleshoot Windows Legacy and NetApp Collection

This topic highlights possible problems that you may encounter with Windows Legacy Collection (LWC) and suggested solutions to these problems.

**Note:** In general, you receive more robust log messages by disabling SSL.

## Protocol Restart Problems

Problem	Possible Causes	Solutions
You restart the Legacy Windows collection protocol, but NetWitness Platform is not receiving events.	The logcollector service is stopped.	Restart the <b>logcollector</b> service. <ol style="list-style-type: none"> <li>1. Log on to the <b>Windows Legacy Remote Collector</b>.</li> <li>2. Go to <b>Start &gt; Administrative Tools &gt; Task Scheduler</b> and click on <b>Task Scheduler Library</b>.</li> <li>3. In the right panel, look for the <b>restartnwlogcollector</b> task and make sure that it is running.</li> <li>4. If this is not the case, right-click <b>restartnwlogcollector</b> and select <b>Run</b>.</li> </ol>

## Installation Problems

If you see any of the following messages in the **MessageBroker.log**, you may have issues.

Log Messages	Any message that contains "rabbitmq"
Possible Cause	RabbitMQ service may not be running. Port <b>5671</b> may not be opened.
Solutions	Make sure that the RabbitMQ service is running. Make sure that port <b>5671</b> is open.
Log Messages	Error: Adding logcollector user account. Error: Adding administrator tag to logcollector account. Error: Adding logcollection vhost. Error: Setting permissions to logcollector account in all vhosts.
Possible Cause	<b>rabbitmq-server</b> was not running when installer tried to create users and vhosts.
Solutions	Make sure that the <b>RabbitMQ</b> service is running and run below commands manually. <pre> rabbitmqctl -q add_user logcollector netwitness rabbitmqctl -q set_user_tags logcollector administrator rabbitmqctl -q add_vhost logcollection rabbitmqctl -q set_permissions -p / logcollector ".*" ".*" ".*" rabbitmqctl -q set_permissions -p logcollection logcollector ".*" ".*" ".*" </pre>

## Windows Legacy Federation Script Issues

If you see any of the following messages in the federation script log, you may have issues.

Problem	Possible Symptoms	Solutions
Federation script started, but the LWC service went down.	NetWitness Platform log shows connection failure exceptions with Windows Legacy Collector.	This issue is fixed automatically after restarting the Windows Legacy service.
LWC is running, but RabbitMQ service is down or restarting.	<p>Federation log file at Windows Legacy side displays an error message about RabbitMQ service being down.</p> <p>The log file to look at is: <b>C:\NetWitness\ng\logcollector</b></p> <p>The following error message is logged in case RabbitMQ is not running:</p> <pre>"Unable to connect to node logcollector@localhost: nodedown"</pre> <p>The following diagnostics messages are displayed:</p> <pre>attempted to contact: [logcollector@localhost] logcollector@localhost: * connected to epmd (port 4369) on localhost * epmd reports: node 'logcollector' not running at all other nodes on localhost: ['rabbitmqctl- 4084'] * suggestion: start the node</pre>	<p>Run the <b>federation.bat</b> script manually at LWC. To run the <b>federate.bat</b> script manually, perform the following steps:</p> <ol style="list-style-type: none"> <li>1. Go to folder <b>C:\Program Files\NwLogCollector</b> where the Windows Legacy instance is installed.</li> <li>2. Locate the file <b>federate.bat</b> in this folder. Select the file and right click.</li> <li>3. Select <b>Run as Administrator</b>.</li> <li>4. To monitor the log file, navigate to <b>C:\NetWitness\ng\logcollector\federate.log</b> while the <b>federate.bat</b> script is being executed.</li> </ol> <div style="border: 1px solid green; padding: 5px; margin-top: 10px;"> <p><b>Note:</b> Make sure the log file does not show any errors while the script is being executed.</p> </div>
RabbitMQ service is down on the NetWitness Platform side.	NetWitness Platform User Interface pages do not work.	Restart RabbitMQ service.
Customer receives a Health and Wellness notification, or the following Health and Wellness Alarm is displayed: "Communication failure between Master NetWitness Platform Host and a Remote Host" with LWC Host as the Remote IP.	<b>Federate.bat</b> script failed to run successfully.	If the <b>Federate.bat</b> script did not run correctly, run it manually as described previously.

## Windows Log Collection for Endpoint Agents



In 11.1, Windows Log collection can be achieved using the RSA® NetWitness® Endpoint Insights Agent. When the agent is enabled for log collection, a log configuration file is included with the Agent Packager to enable collection and forwarding of windows logs in addition to the Endpoint data. The generated configuration file contains information of the channels from which logs are to be collected from and the destination (Log Decoder or a Remote Log Collector) to forward the defined windows events. The generated Agent packager is able to collect both Endpoint and Windows log data from hosts. The Endpoint Agent packager is extracted locally on a Windows machine to create the agent installer file. The installer file is then deployed through a third party software distribution tool to all endpoints in your network.

There are three scenarios for Windows log collection, these are:

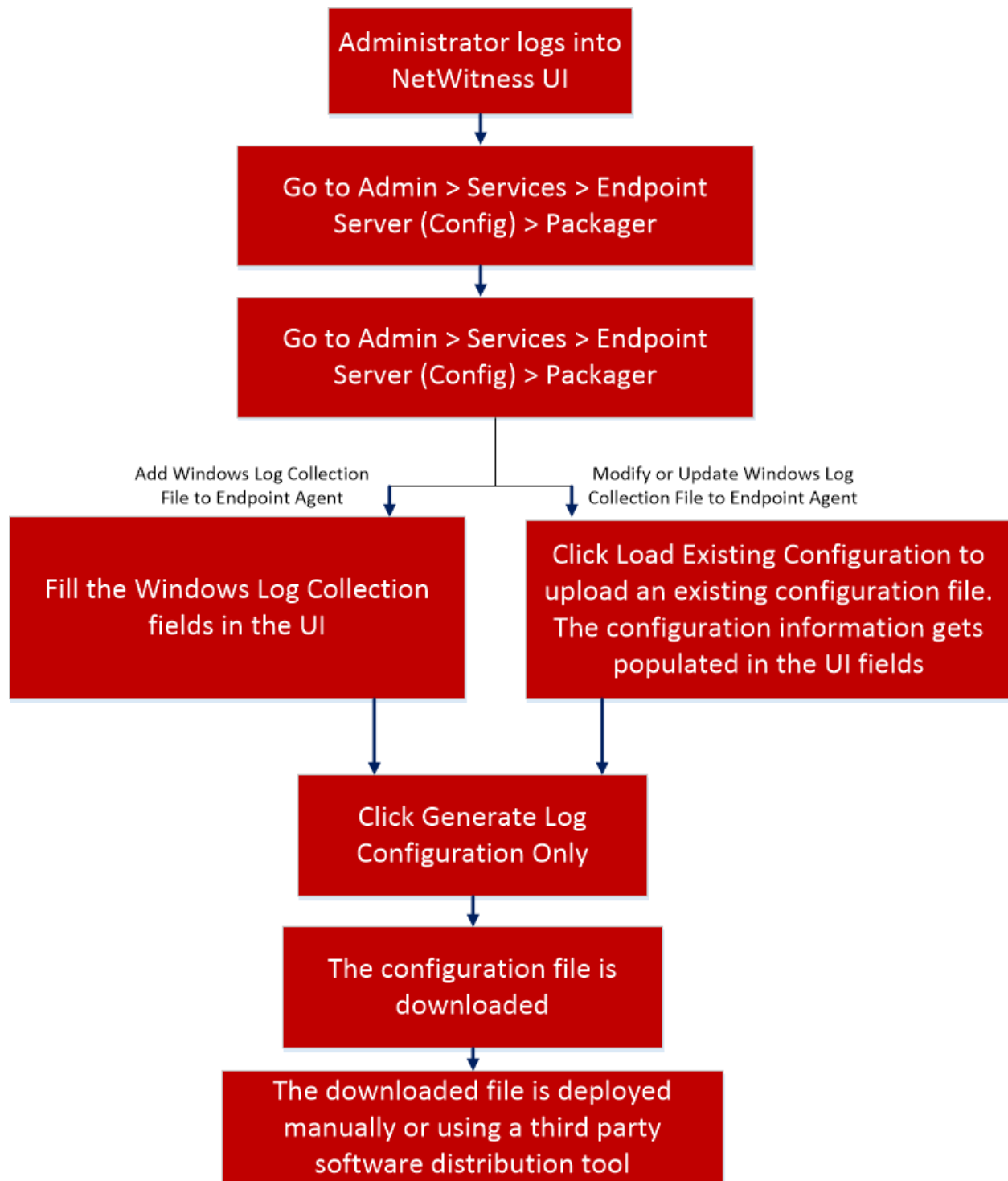
- **Generate Agent with Log Collection:** If the **Enable Windows Log Collection** option is enabled and you click **Generate Agent** after filling the details. The generated AgentPackager.zip contains the log collection file. For more information, see the "Generating an Agent Packager with Windows Log Collection" in the *Endpoint Insights Agent Installation Guide* .
- **Generate Agent file only Without Log Collection:** If the **Enable Windows Log Collection** is disabled and you click **Generate Agent** then only the Zip file gets created without the log collection file. For more information, see the "Generate an Endpoint Agent Packager" in the *Endpoint Insights Agent Installation Guide* .
- If you click on **Generate Log Configuration Only** then only the log configuration gets created. This can be used to update the log configuration file in an existing Endpoint agent deployment for log collection or to add the log configuration to an Endpoint agent deployment. For more information, see ["Add or Update Windows Log Collection Configuration to an existing Endpoint Agent"](#) .

## Add or Update Windows Log Collection Configuration to an existing Endpoint Agent

You can add a Windows Log Collection Configuration file to an Endpoint Agent and also modify an existing log collection configuration file. If a change is required in the log collection configuration for endpoint agents, the agents do not require to be installed again. The log configuration file (nwelcfg file) can be generated from the Packager User Interface and modified.

## Workflow

This workflow shows the procedure to add or update a Windows Log Collection Configuration file.



Following are some example reasons that would require a change in the configuration:

- The destination to which the windows are to be forwarded needs to be changed for better load management in the destination side.

- The endpoint is moved to a new group defined by a third party endpoint management system which needs a change in the destination or list of event ids to be forwarded.
- There are requirements to change the list of event ids consumed at the destination side.

A new configuration file can be generated either by entering the new values in the Packager screen or by loading an existing configuration file.

**Note:** The endpoint agent is built to read the `nwelcfg` file with the latest timestamp under the config folder. So, please ensure the third party endpoint management tool updates the timestamp of the file to the current time of endpoint while pushing the configuration file.

### To add or update a Windows log collection configuration file to an existing Endpoint Agent:

1. In the Packager UI, perform one of the following:
  - a. To add the Windows Log Collection Configuration: Fill the required information mentioned in the "Generating an Agent Packager with Windows Log Collection" in the *Endpoint Insights Agent Installation Guide*.
  - b. To update the Windows Log Collection Configuration: Click **Load Existing Configuration** and edit the intended fields mentioned in the "Generating an Agent Packager with Windows Log Collection" in the *Endpoint Insights Agent Installation Guide*.
2. Click **Generate Log Configuration Only** to generate the `nwelcfg` file.
3. Copy the downloaded `nwelcfg` file to the Endpoint Agent from where the logs are to be forwarded. The configuration file should be copied to `%ProgramData%\NWEAgent` folder. To deploy the configuration file to multiple agents, use the third party software distribution tool.

The agent is designed to pick the log configuration file holding the latest timestamp. If there is a time zone difference, please make sure the configuration file is updated to the agent's timestamp after copying. This can be achieved by running the command on the agent: `copy /b <filename.nwelcfg> +, , from the folder %programdata%\NWEAgent\` where the `nwelcfg` file is there.

## Verify Windows Log Collection

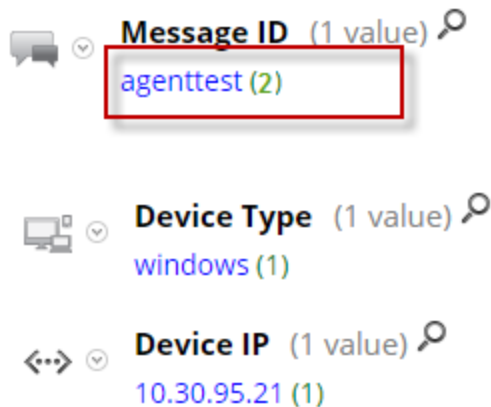
### To verify the windows log collection is successfully deployed on an Endpoint Agent:

1. Go to **ADMIN > Health & Wellness > Event Source Monitoring**.
2. In the Time Frame field, select **Last 5 minutes** or **Last 10 Minutes** depending on when the Agents were installed.
3. Click **Apply**.
4. In the list displayed, the IP address of the Agent should be displayed in the Event Source column with Event Source Type as windows. This confirms the Agent was installed successfully.

### To verify a windows log collection has been updated successfully:

1. Go to **INVESTIGATE > Navigate**. Wait for 2-3 minutes until this config file is picked by the Endpoint agent.
2. Select the **Concentrator** from **Investigate**.

3. Change the timeline to **last 5 minutes** or as applicable.
4. Click **Load Values**.
5. Search for message ID meta key.
6. There should be an **agenttest** value. An increase in the number of events signifies that the update is done successfully.



## Enable log forwarding and Configure Log Decoder

If you want to enable log forwarding feature and configure the log decoder in endpoint hybrid as a destination in the Packager UI. Then you have to add the ports, TCP/UDP 514 in the iptables file on Endpoint Hybrid.

### To add the ports:

1. For TCP, you have to add the "514" port to the existing list of ports in the `/etc/sysconfig/iptables` file on Endpoint Hybrid:
 

```
INPUT -p tcp -m tcp -m multiport --dports 514,
6514,50002,50102,50202,56002,56202 -m comment --comment "nwlogdecoderPorts"
-m conntrack --ctstate NEW -j ACCEPT -
```
2. For UDP, you have to add the below content in the `/etc/sysconfig/iptables` file in Endpoint Hybrid:
 

```
-A INPUT -p udp -m udp -m multiport --dports 514 -m comment --comment
"nwlogcollectorUdpPorts" -m conntrack --ctstate NEW -j ACCEPT
```
3. Restart iptables service for the above new configurations to take effect: `service iptables restart`.

## Related Topics

[Troubleshooting - Windows log Collection using Endpoint Agent](#)

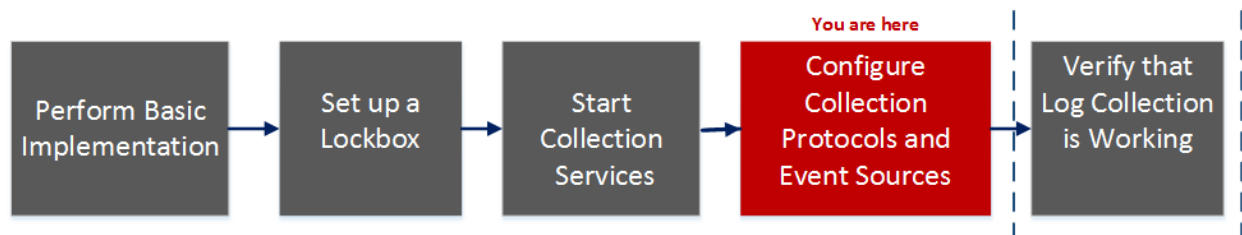
## Reference

### AWS Parameters

This topic provides an overview of the AWS collection configuration parameters for deploying a remote log collection service (VLC) in an Amazon Web Services (AWS) environment.

### Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



### What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>


**\*You can perform this task here.**

### Related Topics

- [Configure AWS \(CloudTrail\) Event Sources in NetWitness Platform](#)

The following table describes the **Basic** configuration parameter for AWS collection.


**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Parameter	Description
Name *	Name of the event source.
Enabled 	Select the check box to enable the event source configuration to start collection. The check box is selected by default.

Parameter	Description
Account Id *	Account Identification code of the S3 Bucket
S3 Bucket Name *	<p>Name of the AWS (CloudTrail) S3 bucket.</p> <p>Amazon S3 bucket names are globally unique, regardless of the AWS (CloudTrail) region in which you create the bucket. You specify the name at the time you create the bucket.</p> <p>Bucket names should comply with DNS naming conventions. The rules for DNS-compliant bucket names are:</p> <ul style="list-style-type: none"> <li>• Bucket names must be at least three and no more than 63 characters long.</li> <li>• Bucket names must be a series of one or more labels. Adjacent labels are separated by a single period “.”. Bucket names can contain lowercase letters, numbers, and hyphens. Each label must start and end with a lowercase letter or a number.</li> <li>• Bucket names must not be formatted as an IP address (for example, 192.168.5.4).</li> </ul> <p>The following examples are <b>valid</b> bucket names:</p> <ul style="list-style-type: none"> <li>• myawsbucket</li> <li>• my.aws.bucket</li> <li>• myawsbucket.1</li> </ul> <p>The following examples are <b>invalid</b> bucket names:</p> <ul style="list-style-type: none"> <li>• .myawsbucket - Do not start a Bucket Name with a period</li> <li>• myawsbucket. - Do not end a Bucket Name with a period</li> <li>• my..examplebucket - Only use one period between labels.</li> </ul>
Access Key *	Key used to access the S3 bucket. Access Keys are used to make secure REST or Query protocol requests to any AWS service API. Please refer to Manage User Credentials on the Amazon Web Services support site for more information on Access Keys.
Secret Key *	Secret key used to access the S3 bucket.
Region *	Region of the S3 bucket. <code>us-east-1</code> is the default value.
Region Endpoint	Specifies the AWS CloudTrail hostname. For example, for an AWS public cloud for us-east region, the Region Endpoint would be <code>s3.amazonaws.com</code> . More information can be found at <a href="http://docs.aws.amazon.com/general/latest/gr/rande.html#s3_region">http://docs.aws.amazon.com/general/latest/gr/rande.html#s3_region</a> . This parameter is necessary to collect CloudTrail logs from AWS Government or Private clouds.
Use Proxy	Enable <b>Use Proxy</b> to set proxy for AWS server. By default, it is disabled.
Proxy Server	Enter the proxy name you want to connect to access the AWS server.
Proxy Port	Enter the port number that connects to the proxy server to access the AWS server.
Proxy User	Enter the user name to authenticate with the proxy server.
Proxy Password	Enter the password to authenticate with proxy port.
Start Date *	Starts AWS (CloudTrail) collection from the specified number of days in the past, measured from the current timestamp. The default value is 0, which starts from today. The range is 0–89 days.

Parameter	Description
Log File Prefix	Prefix of the files to be processed.  <b>Note:</b> If you set a prefix when you set up your CloudTrail service, make sure to enter the same prefix in this parameter.
Cancel	Closes the dialog without adding the AWS (CloudTrail).
OK	Adds the current parameter values as a new AWS (CloudTrail).

The following table describes the **Advanced** configuration parameter for AWS collection.

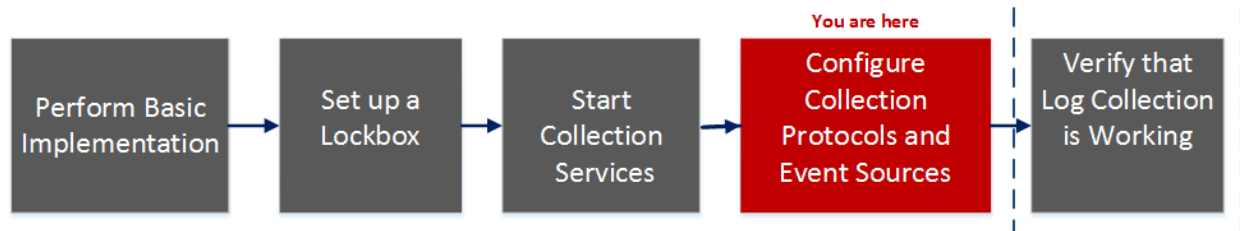
Parameter	Description
Debug	<p><b>Caution:</b> Only enable debugging (set this parameter to On or Verbose) if you have a problem with an event source and you need to investigate this problem. Enabling debugging will adversely affect the performance of the Log Collector.</p> <p>Enables or disables debug logging for the event source.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li><b>Off</b> = (default) disabled</li> <li><b>On</b> = enabled</li> <li><b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>
Command Args	Arguments added to the script.
Polling Interval	<p>Interval (amount of time in seconds) between each poll. The default value is 60.</p> <p>For example, if you specify 60, the collector schedules a polling of the event source every 60 seconds. If the previous polling cycle is still underway, it will wait for it to finish that cycle. If you have a large number of event sources that you are polling, it may take longer than 60 seconds for the polling to start because the threads are busy.</p>
SSL Enabled 	<p>Select the check box to communicate using SSL. The security of data transmission is managed by encrypting information and providing authentication with SSL certificates.</p> <p>The check box is selected by default.</p>
Test Connection	<p>Validates the configuration parameters specified in this dialog are correct. For example, this test validates that:</p> <ul style="list-style-type: none"> <li>NetWitness can connect with the S3 Bucket in AWS using the credentials specified in this dialog.</li> <li>NetWitness can download a log file from the bucket (test connection would fail if there were no log files for the entire bucket, but this would be extremely unlikely).</li> </ul>

## Azure Parameters

Microsoft Azure is a cloud computing platform and infrastructure for building, deploying, and managing applications and services through a global network of Microsoft-managed data centers.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- [Configure Azure Event Sources in NetWitness Platform](#)

## Azure Event Source Configuration Parameters

This topic describes the Azure event source configuration parameters.

### Basic Parameters

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Name	Description
Name *	Enter an alpha-numeric, descriptive name for the source. This value is only used for displaying the name on this screen.



Name	Description
Enabled	Select the checkbox to enable the event source configuration to start collection. The checkbox is selected by default.
Client ID *	The Client ID is found the Azure Application Configure tab. Scroll down until you see it.
Client Secret *	When you are configuring the event source, the client secret is displayed when you are creating a key, and you select a duration of validation.  Make sure to save this, because you will only be able to see it once, and it cannot be retrieved later.
API Resource Base URL *	Enter <code>https://management.azure.com/</code> . Be sure to include the trailing slash (/).
Federation Metadata Endpoint *	In your Azure application, click the <b>View Endpoints</b> button (near the bottom of the pane).  There are a lot of links that all begin with the same string. Compare the URLs and find the common string that begins most of them. This common string is the endpoint that you need to enter here.
Subscription ID *	You can find this in the Microsoft Azure dashboard: click on Subscriptions at the bottom of the list on the left.
Tenant Domain *	Go to the active directory and click on the directory. In the URL, the tenant domain is the string directly following <b>manage.windowsazure.com/</b> . The tenant domain is the string up to and including the <b>.com</b> .
Resource Group Names *	In Azure, select Resource groups from the left navigation pane, then select your group.
Start Date *	Choose the date from which to start collecting. Default's to the current date.
Test Connection	Checks the configuration parameters specified in this dialog to make sure they are correct.

### Advanced Parameters

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

Name	Description
Polling Interval	Interval (amount of time in seconds) between each poll. The default value is <b>180</b> . For example, if you specify 180, the collector schedules a polling of the event source every 180 seconds. If the previous polling cycle is still underway, the collector waits for that cycle to finish. If you have a large number of event sources that you are polling, it may take longer than 180 seconds for the polling to start because the threads are busy.

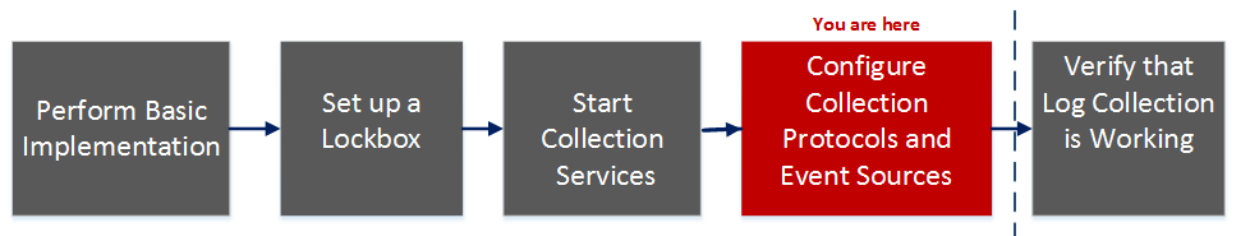
Name	Description
Max Duration Poll	Maximum duration, in seconds, of a polling cycle. A zero value indicates no limit.
Max Events Poll	The maximum number of events per polling cycle (how many events collected per polling cycle).
Max Idle Time Poll	Maximum duration, in seconds, of a polling cycle. A zero value indicates no limit.
Command Args	Optional arguments to be added to the script invocation.
Debug	<p><b>Caution:</b> 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>Enables or disables debug logging for the event source. Valid values are:</p> <ul style="list-style-type: none"><li>• <b>Off</b> = (default) disabled</li><li>• <b>On</b> = enabled</li><li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li></ul> <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>

## Check Point Parameters

The Check Point Collection protocol collects events from Check Point event sources using OPSEC LEA. OPSEC LEA is the Check Point Operations Security Log Export API that facilitates the extraction of logs.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- [Configure Check Point Event Sources in NetWitness Platform](#)

## Check Point Collection Configuration Parameters

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

### Basic Parameters

Parameter	Description
Name*	Name of the event source.
Address*	IP Address of the Check Point server.

Parameter	Description
Server Name*	Name of the Check Point server.
Certificate Name	<p>Certificate name for secure connections to use when the transport mode is https. If set, the certificate must exist in the certificate trust store that you created using the Settings tab.</p> <p>Select a certificate from the drop-down list. The file naming convention for Check Point event source certificates is <b>checkpoint_name-of-event-source</b>.</p>
Client Distinguished	Enter the Client Distinguished Name from the Check Point server.
Client Entity Name	Enter the Client Entity Name from the Check Point server.
Server Distinguished	Enter the Server Distinguished Name from the Check Point server.
Enabled	Select the check box to enable the event source configuration to start collection. The check box is selected by default.
Pull Certificate	Select the checkbox to pull a certificate for first time. Pulling a certificate makes it available from the trust store.
Certificate Server Address	IP Address of the server on which the certificate resides. Defaults to the event source address.
Password	Only active when you select the Pull Certificate checkbox for first time. Password required to pull the certificate. The password is the activation key created when adding an OPSEC application to Check Point on the Check Point server.

## Determine Advanced Parameter Values for Check Point Collection

You use less system resources when you configure a Check Point event source connection to stay open for a specific time and specific event volume (transient connection). RSA NetWitness Platform defaults to the following connection parameters that establish a transient connection:

- Polling Interval = **180** (3 minutes)
- Max Duration Poll = **120** (2 minutes)
- Max Events Poll = **5000** (5000 events per polling interval)
- Max Idle Time Poll = **0**

For very active Check Point event sources, it is a good practice to set up a connection that stays open until you stop collection (persistent connection). This ensures that Check Point collection maintains the pace of the events generated by these active event sources. The persistent connection avoids restart and connection delays and prevents Check Point collection from lagging behind event generation.

To establish a persistent connection for a Check Point event source, set the following parameters to the following values:

- Polling Interval = **-1**
- Max Duration Poll = **0**
- Max Events Poll = **0**
- Max Idle Time Poll = **0**

Parameter	Description
Port	Port on the Check Point server that Log Collector connects to. Default value is 18184.
Collect Log Type	<p>Type of logs that you want to collect: Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Audit</b> - collects audit events.</li> <li>• <b>Security</b> - collects security events.</li> </ul> <p>If you want to collect both audit and security events, you must create a duplicate event source. For example, first you would create an event source with Audit selected pulling a certificate into the trust store for this event source. Next you would create another event source with the same values except that you would select Security for the Collect Log Type and you would select the same certificate in Certificate Name that you pulled when you set up the first set of parameters for this event source and you would make sure that Pull Certificate was not selected.</p>
Collect Logs From	<p>When you set up a Check Point event source, NetWitness collects events from the current log file. Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Now</b> - Start collecting logs now (at this point in time in the current log file).</li> <li>• <b>Start of Log</b> - Collect logs from the beginning of the current log file.</li> </ul> <p>If you choose "Start of Log" for this parameter value, you may collect a very large amount of data depending on how long the current log file has been collecting events. Note that this option is effective only for the first collection session.</p>
Polling Interval	<p>Interval (amount of time in seconds) between each poll. The default value is <b>180</b>.</p> <p>For example, if you specify 180, the collector schedules a polling of the event source every 180 seconds. If the previous polling cycle is still underway, it will wait for it to finish that cycle. If you have a large number of event sources that you are polling, it may take longer than 180 seconds for the polling to start because the threads are busy.</p>
Max Duration Poll	The maximum duration of polling cycle (how long the cycle lasts) in seconds.
Max Events Poll	The maximum number of events per polling cycle (how many events collected per polling cycle).
Max Idle Time Poll	Maximum idle time, in seconds, of a polling cycle. 0 indicates no limit. > <b>300</b> is the default value.
Forwarder	Enables or disables the Check Point server as a forwarder. By default it is disabled.

Parameter	Description
Log Type (Name Value Pair)	Logs from the event source in Name Value format. By default it is disabled.
Debug	<p><b>Caution:</b> 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>Enables and disables debug logging for the event source.</p> <p>Valid values are:</p> <ul style="list-style-type: none"><li>• <b>Off</b> = (default) disabled</li><li>• <b>On</b> = enabled</li><li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li></ul> <p>This parameter is designed to debug and monitor isolated event source collection issues. The debug logging is verbose, so limit the number of event sources to minimize performance impact.</p> <p>If you change this value, the change takes effect immediately (no restart required).</p>

## File Parameters

This topic describes the File Collection configuration parameters.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- [Configure File Event Sources in NetWitness Platform](#)

## File Collection Event Source Parameters

The following table provides descriptions of the File Collection source parameters.

The following table describes the **Basic** configuration parameter for File collection.

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Name	Description
------	-------------

Name	Description
File Directory*	<p>Collection directory (for example, <b>Eur_London100</b>) into which the File event source places its files. Valid value is a character string that conforms to the following regular expression:</p> <p><b>[_a-zA-Z][_a-zA-Z0-9]*</b></p> <p>This means that the file directory must start with a letter followed by numbers, letters, and underscores. <u>Do not modify this parameter after you start collecting event data.</u></p> <p>After you create the collection, the Log Collector creates the work, save, and error sub-directories under the collection directory.</p>
Address*	IP address of the event source. Valid value is an <b>IPv4 address</b> , <b>IPv6 address</b> , or a <b>hostname</b> including a fully-qualified domain name.
File Spec	Regular expression. For example, <b>^.*\$</b> = process everything.
File Encoding	<p>Internationalization file encoding. Enter the File Encoding method, the following strings are examples of valid methods:</p> <ul style="list-style-type: none"> <li>• UTF-8 (default)</li> <li>• UCS-16LE</li> <li>• UCS-16BE</li> <li>• UCS-32LE</li> <li>• UCS-32BE</li> <li>• SHIFT-JIS</li> <li>• EBCDIC-US</li> </ul>
Cancel	Closes the dialog without making adding an event source type.
OK	Adds the parameters for the event source.

The following table describes the **Advanced** configuration parameter for File collection.

Name	Description
Ignore Encoding Conversion Errors	<p>Select the check box to ignore encoding conversion errors and ignore invalid data. The check box is selected by default.</p> <div> <b>Caution:</b> This may cause parsing and transformation errors. </div>



Name	Description
File Disk Quota	<p>Determines when to stop saving files regardless of the <b>Save On Error</b> and <b>Save On Success</b> parameter settings. For example, a value of 10 indicates that when there is less than 10% available disk left, the Log Collector stops saving files to reserve enough space for your estimated normal collection processing.</p> <div> <p><b>Caution:</b> Available disk refers to a partition where the base collection directory is mounted. If the Log Decoder server has a 10TB disk size and 2TB is allocated to base collection directory, then setting this value to 10 causes log collection to stop when less than 0.2TB (10% of 2TB) of space is left. It does not mean 10% of 10TB.</p> </div> <p>Valid value is a number in the <b>0</b> to <b>100</b> range. <b>10</b> is the default.</p>
Sequential Processing	<p>Sequential processing flag:</p> <ul style="list-style-type: none"> <li>• Select the check box (default) to process event source files in collection order.</li> <li>• Do not select the checkbox to process event source files in parallel.</li> </ul>
Save On Error	<p>Save on error flag. Check the checkbox to retain the <b>eventsources collection</b> file when the Log Collector it encounters an error. The check box is selected by default.</p>
Save On Success	<p>Save <b>eventsources collection</b> file after processing flag. Check the checkbox to save the eventsources collection file after processing it. The check box is not selected by default.</p>
Eventsources SSH Key	<p>SSH public key used to upload files for this event source. Please refer to the <i>Generate Key Pair on Event Source and Import Public Key to Log Collector</i> section in the <a href="#">Install and Update the SFTP Agent Guide</a> for instructions on generating keys.</p> <div> <p><b>Note:</b> If File collection is stopped, NetWitness Platform does not update the <code>authorized_keys</code> file with the SSH public key that you add or modify in this parameter. You must restart File collection to update the public key. You can add or modify the value of the public key in this parameter in multiple File event sources without File collection running, but NetWitness Platform will not update the <code>authorized_keys</code> file until File collection is restarted.</p> </div>
Manage Error Files	<p>By default, the Log Collector uses the <b>File Disk Quota</b> parameter to ensure that the disk does not fill up with error files. If you set this parameter to <b>true</b>, you can specify one of these:</p> <ul style="list-style-type: none"> <li>• Maximum space allotted to error files in the <b>Error Files Size</b> parameter.</li> <li>• Maximum number of error files allowed in <b>Error Files Count</b> parameter.</li> </ul> <p>A reduction percent is also specified, which tells the system how much to reduce when the maximum is reached.</p> <p>Select the check box to manage error files. The check box is not selected by default.</p>

Name	Description
Error Files Size	<p>Only valid if the <b>Manage Error Files</b> and <b>Save On Error</b> parameters are set to true. Specifies to what extent NetWitness Platform saves error files. The value that you specify is the maximum total size of all the files in the error directory.</p> <p>Valid value is a number in <b>0 to 281474976710655</b> range. You specify these values in either <b>Kilobytes</b>, <b>Megabytes</b>, or <b>Gigabytes</b>. <b>100 Megabytes</b> is the default. If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Error Files Count	<p>Only valid if the <b>Manage Error Files</b> and <b>Save On Error</b> parameters are set to true. Maximum number of error files allowed in the error directory. Valid value is a number in <b>0 to 65536</b> range. <b>65536</b> is the default.</p> <p>If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Error Files Reduction %	<p>Percent amount by size or count of the error files that the Log Collector service removes when the maximum size or count has been reached. The service removes the oldest files first.</p> <p>Valid value is a number in the <b>0 to 100</b> range. <b>10</b> is the default.</p>
Manage Saved Files	<p>Select the check box to manage saved files. The check box is not selected by default. By default, the Log Collector uses the <b>File Disk Quota</b> parameter to ensure that the disk does not fill up with saved files. If check this check box, you can specify one of these:</p> <ul style="list-style-type: none"> <li>• Maximum space allotted to saved files in the <b>Saved Files Size</b> parameter.</li> <li>• Maximum number of saved files allowed in <b>Saved Files Count</b> parameter.</li> </ul> <p>A reduction percent is also specified, which tells the system how much to reduce when the maximum is reached.</p>
Saved Files Size	<p>Only valid if the <b>Manage Saved Files</b> and <b>Save On Success</b> parameters are set to true. Maximum total size of all the files in the save directory. Valid value is a number in the <b>0 to 281474976710655</b> range. You specify these values in either <b>Kilobytes</b>, <b>Megabytes</b>, or <b>Gigabytes</b>. <b>100 Megabytes</b> is the default.</p> <p>If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Saved Files Count	<p>Only valid if the <b>Manage Saved Files</b> and <b>Save On Success</b> parameters are set to true. Maximum number of saved files in the save directory. Valid value is a number in <b>0 to 65536</b> range. <b>65536</b> is the default.</p> <p>If you change this parameter, the change does not take effect until you restart collection or restart the Log Collector service.</p>
Saved File Reduction %	<p>Percent amount by size or count of the saved files that the Log Collector service removes when the maximum size or count has been reached. The service removes the oldest files first.</p> <p>Valid value is a number in the <b>0 to 100</b> range. <b>10</b> is the default.</p>

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

## Log Collection Service System View

A Log Collector is a service that runs on a Log Decoder host (referred to as a Local Collector) or sends events from a Remote Collector to a Local Collector, and is configured and managed in a similar way to a Log Decoder.

To access the Log Collection Service System view, go to ADMIN > Services and select a Log Collector service, then select View > System.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I want to ...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings	<a href="#">Set Up a Lockbox</a>
Administrator	<b>*Start Log Collection Services.</b>	<a href="#">Start Collection Services</a>
Administrator	Configure Log Collection protocols and event sources.	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

[Basic Implementation](#)

## Quick Look

From the Log Collector Service Information Toolbar, you can manage event data using the Collection icon to start event data from a stopped protocol or stop collecting data from a started protocol. From the Host Tasks icon, you can select tasks that you want to run. You can also shutdown your service and reboot your service from the Service Information Toolbar.





## ODBC Event Source Configuration Parameters

This topic tells you how to configure ODBC collection protocol which collects events from event sources that store audit data in a database using the Open Database Connectivity (ODBC) software interface.

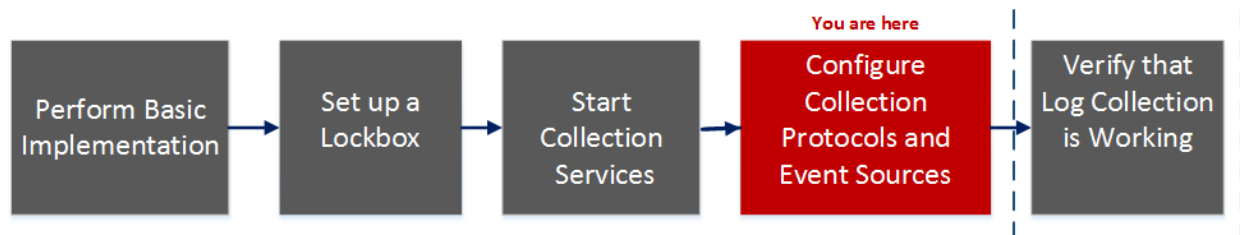
### Access ODBC Configuration Parameters

**To access the ODBC Event Source Configuration Parameters:**

1. Go to **Administration > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Select   > **View > Config** to display the Log Collection configuration parameter tabs.  
The **Service Config** view is displayed with the Log Collector **General** tab open.
4. Click the **Event Sources** tab, and select **ODBC/Config** from the drop-down menu.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation.	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- [Configure ODBC Event Sources in NetWitness Platform](#)
- [Configure Data Source Names \(DSNs\)](#)
- [Troubleshoot ODBC Collection](#)
- [Create Custom Typespec for ODBC Collection](#)

## Data Source Name (DSN) Parameters

Use the Sources panel to review, add, modify, and delete Data Source Name (DSN) parameters.







### Sources Panel

An ODBC DSN tells the Log Collector how to reach an ODBC endpoint. You refer to an ODBC DSN when you configure a data source name with information such as which ODBC driver to use or the host name and port of the ODBC endpoint.

An ODBC DSN is a sequence of name-value pairs. For information about the valid names for a given ODBC data source type, such as Sybase, Microsoft SQL Server, or Oracle, please download the *DataDirect Connect Series for ODBC User's Guide and DataDirect Connect Series for ODBC User's Guide* in the [Progress DataDirect Document Library](#).

### Toolbar

The following table provides descriptions of the toolbar options.

Option	Description
	Opens the Add DSN dialog in which you add an event source for the event source type you selected in the Event Categories panel.
	Deletes the selected event sources.
	Opens the Edit DSN dialog in which you modify the configuration parameters for the selected event source.  When you select multiple event sources, this option opens the Bulk Edit Source dialog in which you can edit the parameters values for the selected file directories.
 Import Source	Opens the Bulk Add Option dialog in which you can import DSN parameters in bulk from a comma-separated values (CSV) file. The Bulk Add Option dialog has the following two options: <ul style="list-style-type: none"><li>• Import CSV File</li><li>• Paste CSV Content</li></ul>
 Export Source	Creates a <b>.csv</b> file that contains the parameters for the selected DSNs.
 Test Connection	Validates the configuration parameters for the selected ODBC database.

## Add or Edit DSN Dialog

In this dialog, you add or modify an event source for the selected event source.

### Basic Parameters

**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Name	Description
DSN*	The data source name (DSN) that defines the database from which to collect events. Select an existing DSN from the drop-down list. For details, see <a href="#">ODBC DSNs Event Source Configuration Parameters</a> .
Username*	User name that the data source name uses to connect to the database. You must specify a user name when you create the event source.
Password	Password that the data source name uses to connect to the database.  <b>Caution:</b> The password is encrypted internally and is displayed in its encrypted form.
Enabled	Select the checkbox to enable the event source configuration to start collection. The checkbox is selected by default.
Address*	For ODBC, this field is not used. The Log Collector uses the address in the <b>ODBC.ini</b> file.

### Advanced Parameters

Name	Description
Max Cell Size	Maximum size in bytes of the data that the Log Collector can pull from one cell in the database. The default value is <b>2048</b> .
Nil Value	Character string that the Log Collector displays when NIL is returned for a cell in the database. Default value: "" (null).
Polling Interval	Interval (amount of time in seconds) between each poll. The default value is <b>180</b> . For example, if you specify 180, the collector schedules a polling of the event source every 180 seconds. If the previous polling cycle is still underway, the collector waits for that cycle to finish. If you have a large number of event sources that you are polling, it may take longer than 180 seconds for the polling to start because the threads are busy.
Max Events Poll	The maximum number of events per polling cycle (how many events collected per polling cycle).




Name	Description
Debug	<p><b>Caution:</b> 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>Enables or disables debug logging for the event source. Valid values are:</p> <ul style="list-style-type: none"> <li>• <b>Off</b> = (default) disabled</li> <li>• <b>On</b> = enabled</li> <li>• <b>Verbose</b> = enabled in verbose mode - adds thread information and source context information to the messages.</li> </ul> <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>
Initial Tracking Id	Initial identification code that the Log Collector assigns to this event source if collection is not started. If there is no value for this parameter, the Log Collector starts at the end of the table and only pulls rows after the end of the table as they are added. The default value is "" (null).
Filename	<p>For Microsoft SQL Server Event Sources only, the location of the trace files directory (for example, <b>C:\MyTraceFiles</b>).</p> <p>Refer to the RSA Microsoft SQL Server Event Source Configuration Guide, located on RSA Link here: <a href="https://community.rsa.com/docs/DOC-40241">https://community.rsa.com/docs/DOC-40241</a>.</p>
Test Connection	Checks the configuration parameters specified in this dialog to make sure they are correct.
Cancel	Closes the dialog without adding or modifying DSN parameters.
OK	Adds or modifies the parameters for the DSN.

## ODBC DSNs Event Source Configuration Parameters

Open Database Connectivity (ODBC) event sources require Data Source Names (DSNs) so you need to define DSNs with their associate value pairs for ODBC event source configuration.

### Access ODBC Configuration Parameters

**To access the ODBC Event Source Configuration Parameters:**

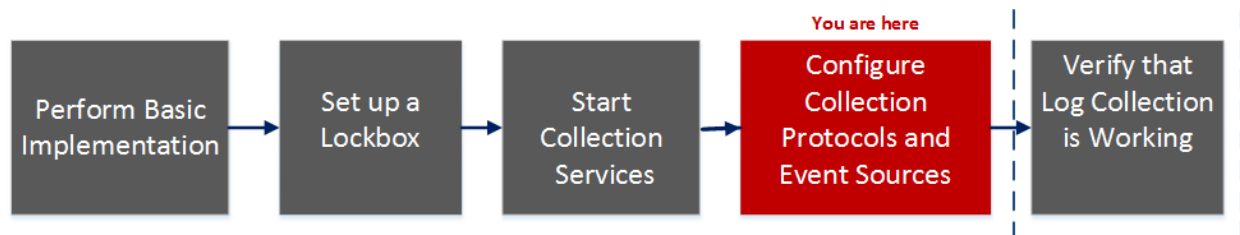
1. Access the Services view by selecting **Admin > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Under Actions, select  **View > Config** to display the Log Collection configuration parameter tabs.

The **Service Config** view is displayed with the Log Collector **General** tab open.

4. Click the **Event Sources** tab, and select **ODBC/DSNs** from the drop-down menu.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics






- [Configure ODBC Event Sources in NetWitness Platform](#)
- [Configure Data Source Names \(DSNs\)](#)

## ODBC DSN Configuration Parameters

This topic describes the Data Source Names DSNs configuration parameters.

### DSN Panel

In the DSNs panel, you can add, delete, or edit DSNs and the DSN name-value pairs for ODBC Event sources.




Feature	Description
	Displays the Add DSN dialog in which you define a DSN and its parameters.
	Deletes the selected DSNs.
	Displays the Edit DSN dialog in which you edit the name-value pairs for the selected DSN.
	Displays the Manage DSN Templates dialog in which you can add or delete DSN name-value pair templates.
	Selects DSNs.
DSN	Name of the DSN that you added.
Parameters	<code>&lt;name-value for="" p="" pairs="" the=""&gt; &lt;/name-value&gt;</code>

### Add or Edit DSN Dialog

In this dialog, you add or modify a file directory for the selected event source.







**Note:** Required parameters are marked with an asterisk. All other parameters are optional.

Feature	Description
DSN Template	Select a predefined DSN value name-value pairs template for the DSN.
DSN Name*	<p>Add the name of the DSN. You cannot edit a DSN name after you add it.</p> <p>This value must correspond with a DSN entry in the ODBC.ini file. Valid value is a character string that is restricted to the following characters:</p> <p><code>[ _a-zA-Z ] [ _a-zA-Z0-9 ] *</code></p> <p>This means that the file directory must start with a letter followed by numbers, letters, and underscores (for example, <b>oracle_executive_compensation</b>).</p>

Feature	Description
Parameters	 Adds a row in which you can define a parameter name-value pair.  Deletes the selected parameter name-value pair.  Selects parameter name-value pairs. Name - Enter or modify the parameter name. Value - Enter or modify the value associated with the parameter name.
Cancel	Closes the dialog without adding the DSN and its name-value pairs or saving modifications to the name-value pairs.
Save	Adds the DSN and its name-value pairs or saves modifications to the name-value pairs.

## Manage DSN Templates Dialog

In this dialog, you can add or delete DSN name-value pair templates.

Feature	Description
Template Selection Panel	
	Opens the Add Template panel in which you can add a DSN name-value pair template.
	Deletes the selected template.
	Selects a template for deletion or modification.
Add Template Panel	
	Adds a value pair row.
	Deletes a value pair row.
	Selects a value pair row.
Name	Enter the parameter name.
Value	Enter the value associated with the parameter name.
Cancel	Cancels any changes you made in the dialog.
Save	Adds the DSN and its name-value pairs or saves modifications to the name-value pairs.
Close	Closes the dialog without adding the DSN and its name-value pairs or saving modifications to the name-value pairs.

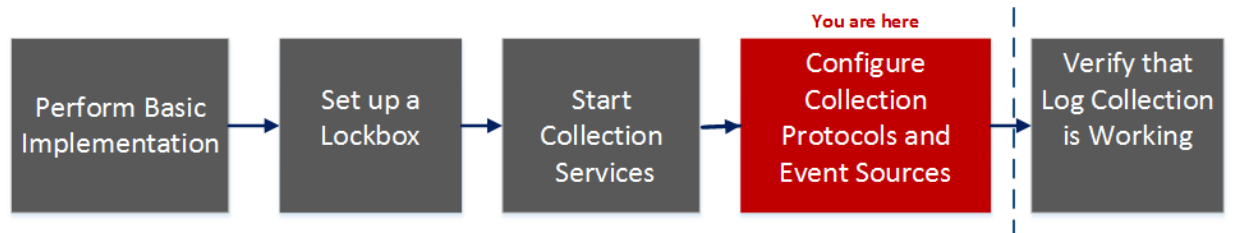
## Remote/Local Collectors Configuration Parameters

When you deploy Log Collection, you must configure the Log Collectors to collect the log events from various event sources, and to deliver these events reliably and securely to the Log Decoder host, where the events are parsed and stored for subsequent analysis.

This topic introduces features of the Services Config view > Remote Collectors/Local Collectors tab.

### Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



### What do you want to do?

Role	I Want to...	Documentation
Administrator	Perform basic Log Collection implementation	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

### Related Topics

- [Provision Local Collectors and Remote Collectors](#)
- [Configure Local and Remote Collectors](#)

### Services Config View





The Services Config view is the view on which you maintain all the Log Collection parameters. The tab in which you maintain the deployment parameters referred to in this guide is the **Remote/Local Collectors** tab:

- If you are configuring a Local Collector, NetWitness Platform displays the **Remote Collectors** tab so that you can configure the Local Collector to pull events from Remote Collectors.

- If you are configuring a Remote Collector , NetWitness Platform displays the **Local Collectors** tab so that you can configure the Remote Collector to push events to a Local Collector .

## Remote Collectors Tab

On a Local Collector, the Remote Collectors panel provides a way to add or delete Remote Collectors from which the Local Collector pulls events.

Column	Description
	Displays the <b>Add Source</b> dialog in which you select the Remote Collectors from which you want the Local Collector to pull events.
	Deletes the Remote Collector from the Local Collector Remote Collectors panel.
	Displays the <b>Edit Source</b> dialog for the selected Remote Collector .
	Selects Remote Collectors.
Name	Names of the Remote Collectors from which the Local Collector currently pulls events.
Address	IP Addresses of the Remote Collectors from which the Local Collector currently pulls events.
Collections	Choose which collection protocols that the Remote Collector pushes to a Local Collector. You can select any combination of protocols. If you do not select a protocol, NetWitness Platform selects all protocols.




## Local Collector Tab


On a Remote Collector , the Local Collector panel provides a way to add or delete the Local Collectors to which you want to the Remote Collector to push events.

Select the **Destination** or **Source** in the **Select Configuration** drop-down menu.





- **Destination** displays the **Add Remote Destination** dialog.
- **Source** displays the **Add Source** dialog.

The following table describes the Add Source dialog.

Column	Description
	Displays the <b>Add Source</b> dialog in which you select the Remote Collectors from which you want the Local Collector to pull events.
	Deletes the Remote Collector from the Local Collector Remote Collectors panel.
	Displays the <b>Edit Source</b> dialog for the selected Remote Collector .

Column	Description
	Selects Remote Collectors.
Name	Names of the Remote Collectors from which the Local Collector currently pulls events.
Address	IP Addresses of the Remote Collectors from which the Local Collector currently pulls events.

The following table describes the Local Collectors Panel.

Column	Description
	Displays the <b>Add Remote Destination</b> dialog for the Group that you selected. You add destination Local Collectors for this group to which you want the Remote Collector to push events.
	Deletes the destination Log Collector from the group.
	Displays the <b>Edit Remote Destination</b> dialog for the selected destination Local Collector .
	Selects a destination Local Collector .
Destination Name	Displays the name of the destination Local Collector .
Address	Displays the IP address of the destination Local Collector .
Collections	Choose which collection protocols that the Local Collector pulls from a Remote Collector.  You can select any combination of protocols. If you do not select a protocol, NetWitness Platform selects all protocols.

## Log Collection Tabs

This topic describes the tabs available in the Log Collection view.

### Access Log Collection View

#### To access the log collection view:

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Under Actions, select **View > Config** to display the Log Collection configuration parameter tabs.  
The **Service Config** view is displayed with the Log Collector **General** tab open.
4. Select any of the available tabs to view or update the corresponding parameters.

## Available Tabs

Use the Admin > Services view to maintain Log Collection parameters. It has the following tabs:

- **General:** contains high-level parameters that govern the operation of the Log Collector service and each collection protocol. See [Log Collection General Tab](#) for details.
- **Remote Collectors:** use this tab to set up remote collectors. See [Configure Local and Remote Collectors](#) for details.
- **Files:** provides an interface for editing Log Collector configuration files.
- **Event Sources:** use this tab to configure collection for your event sources. See [Log Collection Event Sources Tab](#) for details.
- **Event Destinations:** Use the Event Destinations tab of the Log Collection service Config view to configure the destination of event data collected by the Log Collector. See [Log Collection Event Destinations Tab](#) for details.
- **Settings:** contains parameters for Lockbox security setup, and certificate management.
- **Appliance Service Configuration:** contains configuration parameters for the RSA NetWitness Platform Core Appliance service.


Please refer to the **Files** tab and the **Appliance Service Configuration** tab in the *Host and Services Configuration Guide* for information on the configuration parameters on these tabs.



## Log Collection General Tab

This topic introduces features of the service Config view > General tab that relate specifically to Log Collector .

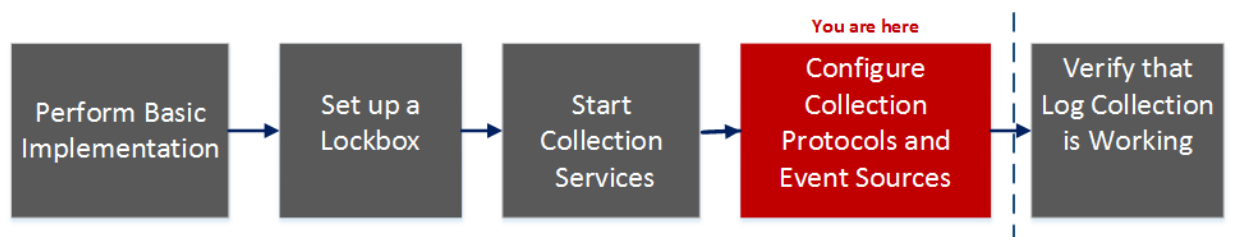
### To access the Log Collection General tab:

1. Go to **ADMIN > Services** from the NetWitness Platform menu.
2. Select a Log Collection service.
3. Click  > **View > Config**.

The **Service Config** view is displayed with the Log Collector **General** tab open.

### Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



### What do you want to do?

Role	I want to...	Documentation
Administrator	Perform basic Log Collection implementation.	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	Configure Log Collection protocols and event sources.	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	<b>*Verify that Log Collection is working.</b>	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

### Related Topics

- [Configure AWS \(CloudTrail\) Event Sources in NetWitness Platform](#)
- [Configure Check Point Event Sources in NetWitness Platform](#)
- [Configure File Event Sources in NetWitness Platform](#)

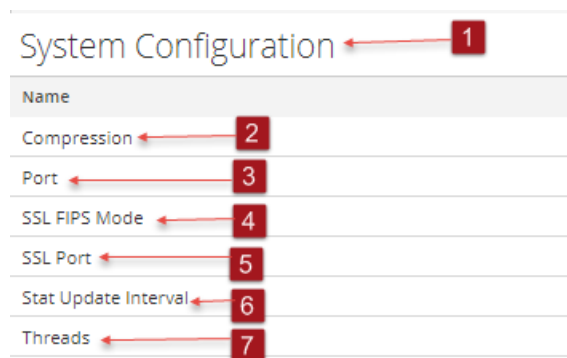
- [Configure Netflow Event Sources in NetWitness Platform](#)
- [Configure ODBC Event Sources in NetWitness Platform](#)
- [Configure SDEE Event Sources in NetWitness Platform](#)
- [Configure SNMP Event Sources in NetWitness Platform](#)
- [Configure Syslog Event Sources for Remote Collector](#)
- [Configure VMware Event Sources in NetWitness Platform](#)
- [Configure Windows Event Sources in NetWitness Platform](#)
- [Windows Legacy and NetApp Collection Configuration](#)

### Quick Look

The RSA NetWitness Platform administrator must configure event sources to send logs to the collectors. When event sources are configured they poll event sources, retrieve logs, and send the event data to NetWitness Platform ).

### System Configuration Panel

The System Configuration panel manages service configuration for a NetWitness Platform service. When a service is first added, default values are in effect. You can edit these values to tune performance. Refer to the **General** tab for a description of these parameters.



**1** System Configuration Panel manages service configuration for a NetWitness Platform service.

**2** Compression: The minimum number of bytes that must be transmitted per response before compression. A setting of 0 disables compression. The default value is **0**.  
A change in value is effective immediately for all subsequent connections.

**3** Port: The port on which the service listens. The ports are:

- 50001 for Log Collectors
- 50002 for Log Decoders
- 50003 for Brokers
- 50004 for Decoders
- 50005 for Concentrators
- 50007 for other services

**4** SSL FIPS Mode: When enabled (**on**), the security of data transmission is managed by encrypting

information and providing authentication with SSL certificates. The default value is **off**.

**5** SSL Port: The NetWitness Platform Core SSL port on which the service listens. The ports are:

- 56001 for Log Collectors
- 56002 for Log Decoders
- 56003 for Brokers
- 56004 for Decoders
- 56005 for Concentrators
- 56007 for other services

**6** Stat Update Interval: The number of milliseconds between statistic updates on the system. Lower numbers cause more frequent updates and can slow down other processes. The default value is **1000**.

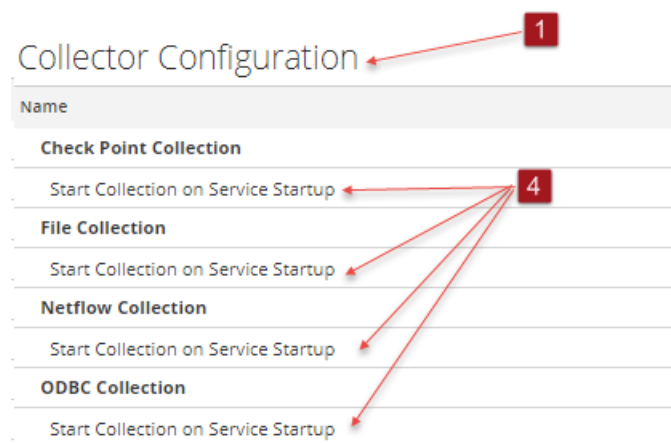
A change in value is effective immediately.

**7** Threads: The number of threads in the thread pool to handle incoming requests. A setting of 0 lets the system decide. The default value is 15.

A change takes effect on service restart.

### Collector Configuration Panel

The Collector Configuration panel provides a way to enable automatic start of log collection by event source type.



**1** Collector Configuration Panel provides a way to enable automatic start of log collection by event source type.

**2** Enable All enables the automatic collection for all event types.

**Enable All** = start receiving events and collecting logs for all event types when the Log Collector service starts.

**3** Disable all disables the automatic collection for all event types.

**Disable All** = (default) do not receive event data for all event types until you explicitly start collection.

**4** Start Collection on Service Startup enables automatic start, per event source type, of log collection when the Log Collector service starts. Valid values are:

- Selected = start collecting logs when the Log Collector service starts.
- Not selected = (default) do not collect event data until you explicitly start collection.

**5 Apply:** Click **Apply** to save the changes to the parameter values.

## Log Collection Event Destinations Tab

Use the Event Destinations tab of the Log Collection service Config view to configure the destination of event data collected by the Log Collector :

- Log Decoders
- Identity Feed

### Prerequisites

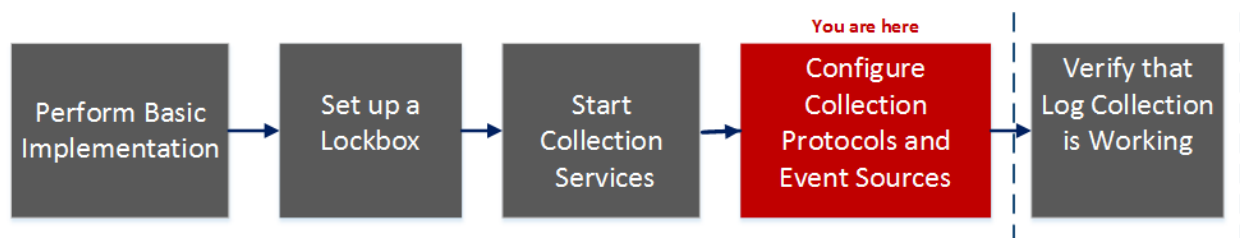
You must implement the following configuration to create an identity feed.

- A Log Collector service with an Identity Feed Event Processor
- A Log Collector service with Windows Collection configured and enabled

**Note:** See the "Create an Identity Feed" topic in the *Live Resource Management Guide* for more information on how to create and investigate on an identity feed.

### Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



### What do you want to do?

Role	I want to...	Documentation
Administrator	Perform basic Log Collection implementation.	<a href="#">Basic Implementation</a>
Administrator	Set up a to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- See the **Create an Identity Feed** topic in the *Live Resource Management Guide*.

## Quick Look

The Event Destinations tab of the Log Collection service Config view allows you to configure the destination of event data collected by the Log Collector.

The screenshot shows the RSA NetWitness Platform configuration interface. The top navigation bar includes tabs for RSA, RESPOND, INVESTIGATE, MONITOR, CONFIGURE, and ADMIN. The ADMIN tab is active, and the left sidebar shows the configuration tree with 'LD - Log Collector' selected. The main content area displays the 'Event Destinations' tab for the 'Log Decoder' service. It features a 'Select Event Destinations' dropdown menu set to 'Log Decoder'. Below this, there are two sections: 'Destination Groups' and 'Log Decoders'. The 'Log Decoders' section contains a table with the following data:

Name ^	Host	Port	SSL	Fallover Log Decoders	Status
logdecoder	127.0.0.1	514	false		started

The bottom of the interface shows pagination controls indicating 'Page 1 of 1' and 'Items 1 - 1 of 1'.

The required permission to access this view is Manage Services.

### To access the Event Destinations tab:

- Go to **ADMIN > Services**.
  - Select a Log Collection service.
  - Select > **View > Config** to display the Log Collection configuration parameter tabs.
  - Click the **Event Destinations** tab.
  - In the **Select Event Destinations** drop-down menu:
    - Select **Log Decoder** to configure Log Decoder destinations for event data collected by the Log Collector.
- Note:** You must select a Log Decoder service from the Add Log Decoder Destination dialog, but the remainder of the configuration is done automatically.
- Select **Identity Feed** to configure an identity feed destination for event data collected by the Log Collector.

Change Service | Log Collector | Config

General Remote Collectors Files Event Sources **Event Destinations** Settings Appliance Service Configuration

Select Event Destinations Log Decoder

**Destination Groups**  
+ -

<input checked="" type="checkbox"/> Name ^
<input checked="" type="checkbox"/> logdecoder

**Log Decoders**  
+ - [edit] [refresh] [stop]

<input type="checkbox"/> Name ^	Host	Port	SSL	Failover Log Decoders	Status
<input type="checkbox"/> logdecoder	127.0.0.1	514	false		started

« < | Page 1 of 1 | > » | « < | Page 1 of 1 | > » | [refresh] Items 1 - 1 of 1

Change Service | Log Collector | Config

General Remote Collectors Files Event Sources **Event Destinations** Settings Appliance Service Configuration

Select Event Destinations Identity Feed

**Identity Feed**  
+ - [edit] [refresh] [stop]

<input checked="" type="checkbox"/> Name ^	Rollover Interval	Update Interval	Event Source Filter	Status	Start Processor on Service Startup
<input checked="" type="checkbox"/> IDFEED	3	1			true

« < | Page 1 of 1 | > » | [refresh] Items 1 - 1 of 1

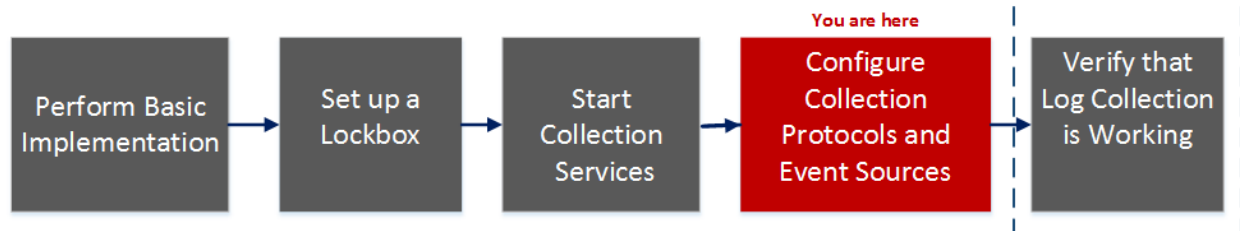
## Log Collection Event Sources Tab

Use the Event Sources tab to configure the AWS (CloudTrail), Check Point, File, ODBC, SDEE, SNMP, Syslog, SNMP, VMware, Windows, and Windows Legacy event sources.

To access the Event Sources tab, go to ADMIN > Services > select Log Collection service > View > Config > Event Sources).

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I want to...	Documentation
Administrator	Perform basic Log Collection implementation.	<a href="#">Basic Implementation</a>
Administrator	Set up a lockbox to maintain lockbox settings.	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	<b>*Configure Log Collection protocols and event sources.</b>	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- [Configure AWS \(CloudTrail\) Event Sources in NetWitness Platform](#)
- [Configure Check Point Event Sources in NetWitness Platform](#)
- [Configure File Event Sources in NetWitness Platform](#)
- [Configure ODBC Event Sources in NetWitness Platform](#)
- [Configure SDEE Event Sources in NetWitness Platform](#)
- [Configure SNMP Event Sources in NetWitness Platform](#)
- [Configure Syslog Event Sources for Remote Collector](#)

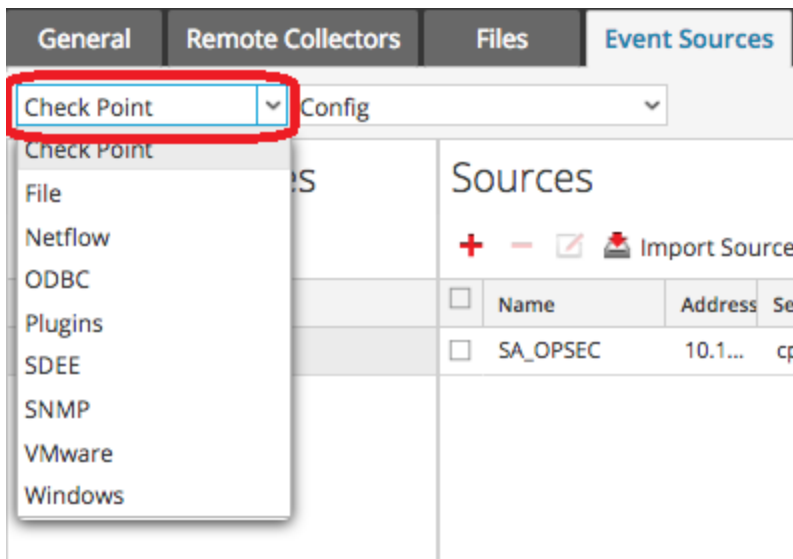


- [Configure VMware Event Sources in NetWitness Platform](#)
- [Configure Windows Event Sources in NetWitness Platform](#)
- [Windows Legacy and NetApp Collection Configuration](#)

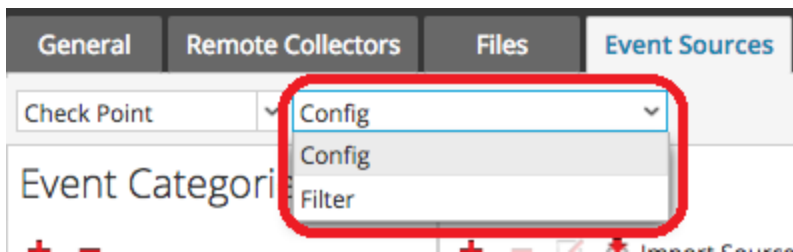
## Quick Look

The Config view has two drop-down menus:

- The left-most menu lists all of the available collection protocols.



- The right-most menu has two choices: **Config** and **Filter**.



The Config view in the Event sources tab has two panels: Event Categories and Sources.

**Note:** For details on the Filter menu item, see [Configure Event Filters for a Collector](#).

### Event Source Types Menu

The Log Collector Event Sources tab has a two-box, drop-down menu in which you select the collection protocol and any supporting parameters for that protocol.

In the left box, you select one of the following protocols: Check Point, File, ODBC, Plugins, SDEE, SNMP, SNMP, VMware, Windows, and Windows Legacy.

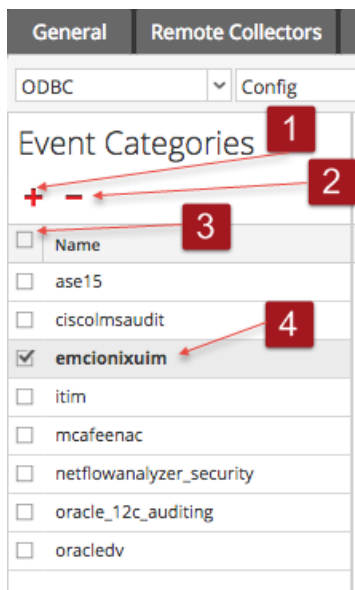
In the right box, you select:

- Config to configure the generic event source parameters for the type you selected in the left drop-down. All generic Config panels have a toolbar with these options:
  - Add, Edit, and Delete
  - Import (also Import Source, Import DSN)
  - Export (also Export Source, Export DSN)
- For ODBC, SNMP, and Windows only:
  - For ODBC, DSNs to configure
  - For SNMP, SNMP v3 User Manager
  - For Windows, Kerberos Realm Configuration

Selecting an option displays a configuration panel where you configure the collection parameters for the event source. The configuration panels are slightly different for different event sources and are described separately.

### Event Categories Panel

Once you select a collection protocol, the Event Categories panel is populated with all of the event sources that you have configured for that collection protocol. For example, the following image shows ODBC event sources that have been configured:



The Event Categories panel provides a way to add or delete event source types.

- 1 Displays the Available Event Source Types dialog from which you select the event source type for which you want to define parameters.
- 2 Deletes the selected event source types from the Event Categories panel.
- 3 Selects event source types.
- 4 Displays the name of the event source types that you have added.

## Sources Panel

The Sources panel lists the values of the parameters for the selected event source type. For details, see the individual collection protocol topics.

## Log Collection Settings Tab

Use the Settings tab to:

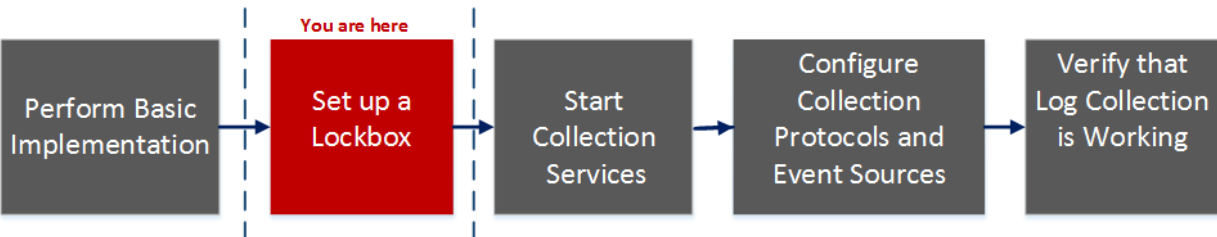
- Set up a lockbox
- Reset Stable System value
- Manage certificates

**Caution:** If the host name on which the Log Collector is installed is changed after installation, the Log Collector will fail to collect events from event sources. You must reset stable system values if the hostname changes.

To access the Log Collection Settings Tab, go to ADMIN > Services. In the Services grid, select a Log Collector Service. Click Actions menu cropped under Actions and select View > Config.

## Workflow

This workflow illustrates the basic tasks needed to start collecting events through Log Collection.



## What do you want to do?

Role	I want to...	Documentation
Administrator	Perform basic Log Collection implementation.	<a href="#">Basic Implementation</a>
Administrator	<b>*Set up a lockbox to maintain lockbox settings.</b>	<a href="#">Set Up a Lockbox</a>
Administrator	Start Log Collection services.	<a href="#">Start Collection Services</a>
Administrator	Configure Log Collection protocols and event sources.	<a href="#">Configure Collection Protocols and Event Sources</a>
Administrator	Verify that Log Collection is working.	<a href="#">Verify That Log Collection Is Working</a>

**\*You can perform this task here.**

## Related Topics

- See the "Create an Identity Feed topic" in the *Live Resource Management Guide*.

## Quick Look

This is an example of the Settings tab.

The screenshot shows the RSA NetWitness Platform interface. The top navigation bar includes tabs for RESPOND, INVESTIGATE, MONITOR, CONFIGURE, and ADMIN. The ADMIN tab is active, and the left sidebar shows the Services menu. The main content area is titled 'Lockbox Security Settings' and contains three sections: 'Lockbox Security Settings', 'Reset Stable System Value', and 'Generate New Encryption Key'. Each section has a description, a password input field, and an 'Apply' button.

**Lockbox Security Settings**  
Set or change the lockbox password. You will be required to enter this password to perform any lockbox management.

Old Lockbox Password:

New Lockbox Password:

**Apply**

**Reset Stable System Value**  
This operation sets the system fingerprint in the lockbox. This is typically only required after changing the host hardware.

Lockbox Password:

**Apply**

**Generate New Encryption Key**  
Generates a new internal encryption key and re-encrypts the log collector's encrypted configuration values with it.

**Apply**

**RSA NETWITNESS PLATFORM**

## Troubleshoot Log Collection

This topic describes the format and content of Log Collection Troubleshooting. NetWitness Platform informs you of Log Collector problems or potential problems in the following two ways.

- Log files.
- Health and Wellness Monitoring views.

### Log Files

If you have an issue with a particular event source collection protocol, you can review debug logs to investigate this issue. Each event source has a Debug parameter that you can enable (set parameter to On or Verbose) to capture these logs.

**Caution:** Only enable debugging if you have a problem with this event source and you need to investigate this problem. If you have Debug enabled all the time it will adversely affect the performance of the Log Collector.

### Health and Wellness Monitoring

Health and Wellness monitoring makes you aware of potential hardware and software problems in a timely manner so that you can avoid outages. RSA recommends that you monitor the Log Collector statistical fields to make sure that the service is operating efficiently and is not at or near the maximum values you have configured. You can monitor the following statistics (Stats) described in the **Admin > Health & Wellness** view.

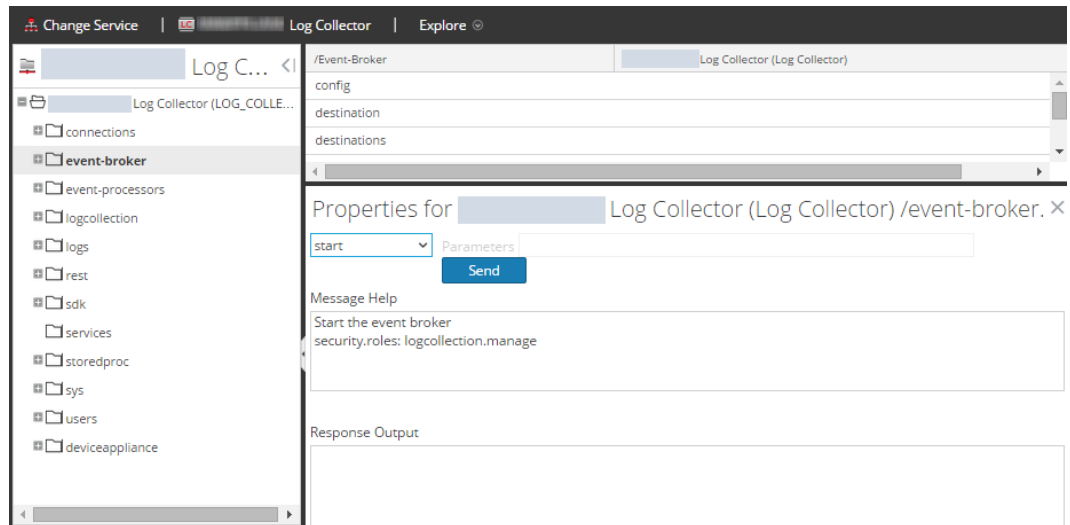
### Sample Troubleshooting Format

RSA NetWitness Platform returns the following types of error messages in the log files for.

Log Messages	timestamp failure (LogCollection) Message-Broker Statistics:...
	timestamp failure (AMQPClientBaseLogCollection):...
	timestamp failure (MessageBrokerLogReceiver):...
Possible Cause	<p>The Log Collector cannot reach the Message Broker because the Message Broker:</p> <ul style="list-style-type: none"> <li>• has stopped running</li> <li>• has erroneous connection settings</li> </ul>
Solutions	<p>1. &lt;use the="the" systemctl="systemctl" command="command" on="on" console="console" to="to" check="check" status="status" of="of" message="message" broker="broker" shell="shell" console.="console."&gt;returns the following if the message broker is not running:&lt;/use&gt;</p> <pre>prompt\$ systemctl status rabbitmq-server</pre>

```
rabbitmq start/running, process 10916
```

2. Start the RabbitMQ Message Broker on event-broker node in the Explore view:



## Troubleshooting - Windows log Collection using Endpoint Agent

The following topics help troubleshoot issues you can come across while using windows log collection file on Endpoint Insights Agent.

### Windows Log Configuration File Format Explained

**Caution:** Do not edit the generated configuration file. If any changes are made, the agent does not read the information from the file.

The log configuration file contains information helpful for analyzing event logs. Below is an example:

```
#### Warning: Do not modify this system generated file.
{
  "enabled" : true,
  "configName" : "FE",
  "servers" : [ "tcp://[redacted]" ],
  "filter" : "<QueryList><Query Id='0'> <Select
Path='ForwardedEvents'*</Select> </Query></QueryList>",
  "testLogOnLoad" : true
}

q5yrOSY6qkdediE9XUI361926LOF22yU7JU2sklntgMWeV3KWFekwqJqhZ8XmPr6vbeOTK6wiYb
uW6zDL0WB/PPo+x5bErzvjoALA7zwAu61HVK4R4sYP4MRgGCsuiikC2pMB667P5bFg0+sUESsxZ
eFN91cjFPUjIIujuUdd0uMhnyur4tt+4F/WGJsB157pTow2D8NRHvb9hKBjE11o7/nZ0WpSO0Fq
yHx90NuS42d0OhjrC3oDyucwdAjgKkxm7VtsAJQwwxZT1wUbmDRPoiIyTG7egERVDDyqGcu2Ii+
fkijkFhuxTta8kWieleQiBts1BAk+JZNfDSNYdYqUg==
```

The generated config file contains the following:

- **Config name:** Name of the configuration file.
- **Servers:** Array of server URLs, describing both their address and protocol to use when forwarding the logs. The agent will attempt to contact them in order.
- **Filter:** Windows Event viewer compatible XML which describes the channels to watch and any event ID exclusion. A standard XML filter to collect from channel Application and System, with one event ID excluded from both would look like this:

```
<QueryList>
  <Query Id="0" Path="Application">
    <Select Path="Application">*</Select>
    <Select Path="System">*</Select>
    <Suppress Path="Application">*[System
      [(EventID=3366)]]</Suppress>
    <Suppress Path="System">*[System
      [(EventID=3366)]]</Suppress>
  </Query>
</QueryList>
```

- **Enabled:** Allows to disable collection but still send a test log if that is enabled.
- **TestLogOnLoad:** Will send a log message when a configuration is loaded, even if event forwarding is not enabled. This helps Analysts test a configuration before enabling collection. This message is not logged locally in the Windows Event log.

## Test Log - How to Read

Test log message is sent whenever an Endpoint Agent with windows log collection file is installed for the first time on an Endpoint Agent or when the log configuration file is updated. On a successful install or updation of windows log collection - There are 3 sections displayed in the test log file.



- 1 Test log message type, Agent's IP address, Agent's Hostname and time of generation of the test log
- 2 Configuration provided during the creation of the agent
- 3 Status and the message associated with it

There are three scenarios.

- Successful deployment of a log collection configuration - Test Log message type will be -1 and status will be displayed as success.



Logs			
<pre>%MSWIN-AgentTest-1: Agent=NWE AgentIP=10.30.30.21 AgentComputer=INENANSARM3L2C AgentTime=2018-02-06T12:14:55.2503054Z ServerList=tcp://10.30.30.21; Filter="&lt;QueryList&gt;&lt;Query Id='0'&gt; &lt;Select Path='System'&gt;*&lt;/Select&gt; &lt;/Query&gt;&lt;/QueryList&gt;" Enabled=True ConfigHash=2380fc7d025236d110a67105e41f3bd04a07fd36600c5ed931fc41f0a205bc2 Status=Success Message="The configuration was loaded."</pre>			

- Whenever the log collection configuration file is tampered with - The Agent Test message will be displayed as -2 and a message displaying the configuration file has been tampered with is displayed. In case, you want to reapply the changes, regenerate the log collection file.

<input type="checkbox"/>	2018-02-16T08:42:27	Log	windows	Windows Hosts	%MSWIN-AgentTest-2: Agent=NWE AgentIP=10.30.30.21 AgentComputer=INENANSARM3L2C AgentTime=2018-02-16T11:05:23.7239124Z Message="A configuration file with an invalid signature was rejected."
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- When the custom channel name is wrong - Status Failure message is displayed. Regenerate the log collection with the correct channel.

<input type="checkbox"/>	2018-02-16T06:20:13	Log	windows	Windows Hosts	%MSWIN-AgentTest-1: Agent=NWE AgentIP=10.30.30.21 AgentComputer=INENANSARM3L2C AgentTime=2018-02-16T08:43:09.0397706Z ServerList=tcp://10.30.30.21; Filter="<QueryList><Query Id='0'> <Select Path='Microsoft-Windows-AAD'>*</Select> <Select Path='System'>*</Select> </Query></QueryList>" Enabled=False ConfigHash=4cfeb08c293501aaaa10f012650a9aebaa181d71d041bfb81e040c713aba0f2 Status=Failure Message="There was a problem applying the configuration."
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