

NetWitness[®] Platform

Zscaler Internet Access (ZIA) Event Source Log Configuration Guide

Zscaler Internet Access (ZIA)

Event Source Product Information:

Vendor: [Zscaler](#)

Event Source: ZIA

Versions: 4.1M

NetWitness Product Information:

Supported On: NetWitness Platform 11.7 or later

Event Source Log Parser: zscalerzia

Collection Method: Syslog

Event Source Class.Subclass: SASE

Contact Information

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

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November, 2023

Contents

Configure Zscaler Internet Access (ZIA)	5
Configure NetWitness Platform for Syslog Collection	5
Configure Syslog Output on ZIA	7
Configure ZIA to Send WebLog Logs to the NetWitness Platform	7
Configure ZIA to Send Other Logs to the NetWitness Platform	10
Getting Help with NetWitness Platform	12
Self-Help Resources	12
Contact NetWitness Support	12
Feedback on Product Documentation	13

Configure Zscaler Internet Access (ZIA)





Perform the following procedures to configure syslog collection for the ZIA:

- I. [Configure NetWitness Platform for Syslog Collection](#)
- II. [Configure Syslog Output on ZIA.](#)



Configure NetWitness Platform for Syslog Collection

Note: You only need to configure Syslog collection the first time that you set up an event source that uses Syslog to send its output to NetWitness. You only need to configure either the Log Decoder or the Remote Log Collector for Syslog, not both.

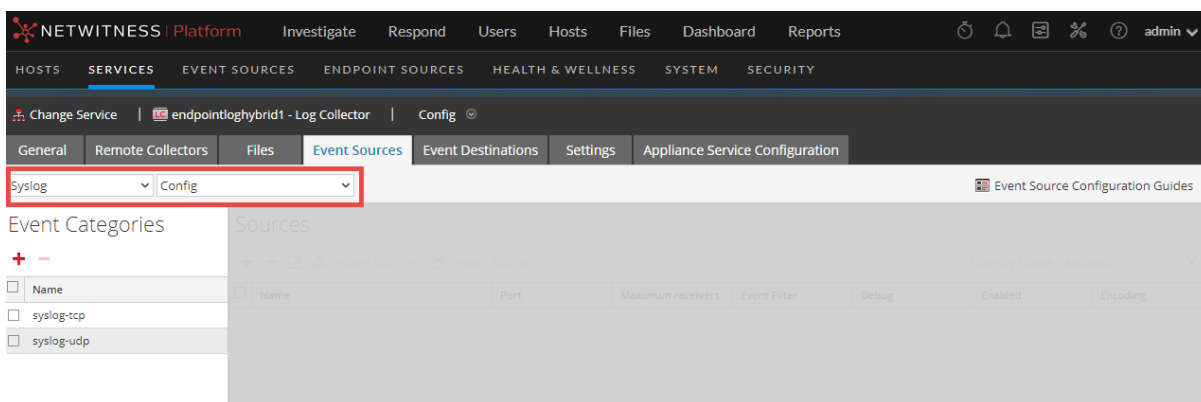
To configure Log Decoder for Syslog Collection

1. In the NetWitness Platform menu, select  (Admin) > **Services**.
2. In the **Services** grid, choose a Log Decoder and from the **Actions** () menu, choose **View > System**.
3. Depending on the icon you see, do one of the following:
 - If you see  **Start Capture**, click the icon to start capturing Syslog.
 - If you see  **Stop Capture**, you do not need to do anything; this Log Decoder is already capturing Syslog.

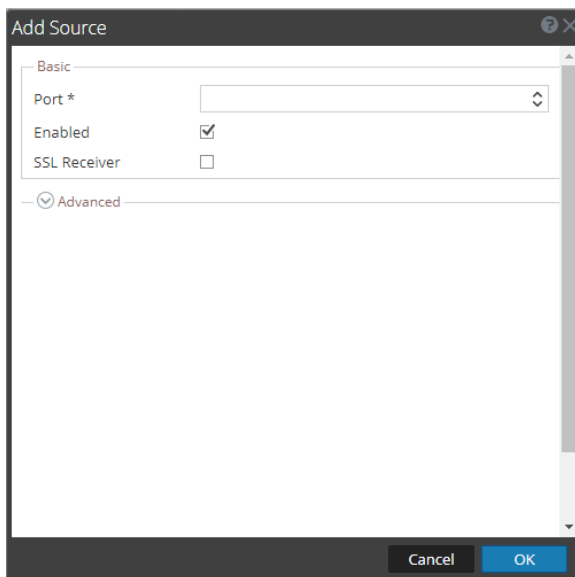
To configure Remote Log Collector for Syslog Collection

1. In the NetWitness Platform menu, go to  (Admin) > **Services**.
2. In the **Services** grid, select a Remote Log Collector and from the **Actions** () menu, choose **View > Config > Event Sources**.
3. Select **Syslog / Config** from the drop-down menu.

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



4. In the **Event Categories** panel toolbar, click **+**.
The **Available Event Source Types** dialog will appear.
5. Choose either **syslog-tcp** or **syslog-udp**. You can set up either or both, depending on the needs of your organization.
6. Choose the **New Type** in the **Event Categories** panel and click **+** in the **Sources** panel toolbar.
The **Add Source** dialog will appear.



7. Enter **514** for the port and choose **Enabled**. Optionally, configure any of the Advanced parameters as necessary.

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

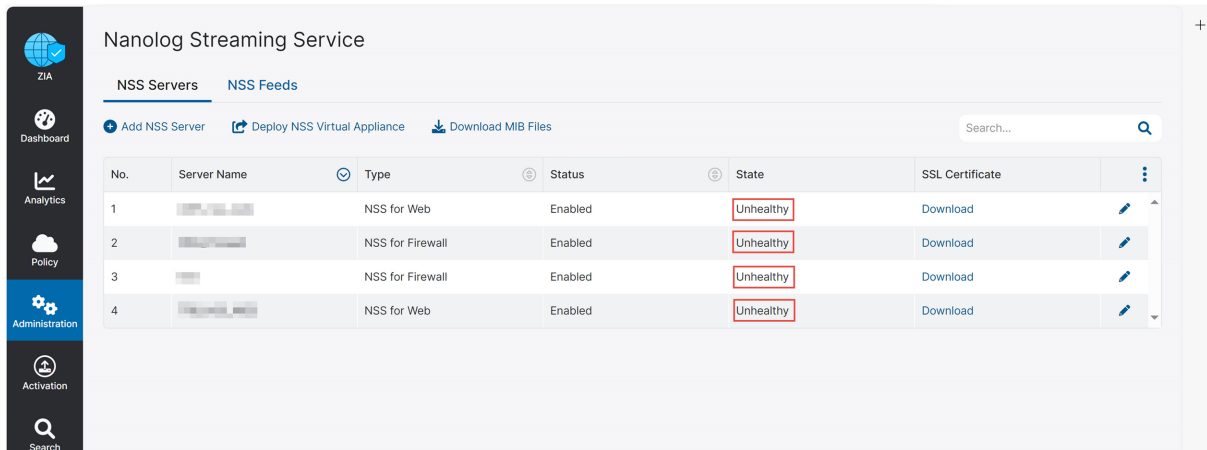
After you configure one or both syslog types, the Log Decoder or Remote Log Collector collects those types of messages from all available event sources. You can continue to add Syslog event sources to your system without a need to do any further configuration in NetWitness Platform.

Configure Syslog Output on ZIA

Configure at least one feed that define the logs that the ZIA sends to the NetWitness Platform.

Configure ZIA to Send WebLog Logs to the NetWitness Platform

1. Log in to the ZScaler Portal with your admin account credentials.
2. Navigate to **Administration** > **Nanolog Streaming Service** > **NSS Servers** tab.
3. Click **Add NSS Server**. See [Adding NSS Servers](#) to add an NSS Server.



The screenshot shows the 'Nanolog Streaming Service' interface with the 'NSS Servers' tab selected. The table below lists the configured NSS servers:

No.	Server Name	Type	Status	State	SSL Certificate
1	[REDACTED]	NSS for Web	Enabled	Unhealthy	Download
2	[REDACTED]	NSS for Firewall	Enabled	Unhealthy	Download
3	[REDACTED]	NSS for Firewall	Enabled	Unhealthy	Download
4	[REDACTED]	NSS for Web	Enabled	Unhealthy	Download

Note: Ensure that the NSS server **State** is *Healthy*.

4. Click **Add NSS Feed** and input the following information:

The screenshot shows the 'Add NSS Feed' configuration window with the following settings:

- Feed Name:** Enter Text
- NSS Type:** NSS for Web (selected), NSS for Firewall
- NSS Server:** NONE
- Status:** Enabled (selected), Disabled
- SIEM Destination Type:** IP Address (selected), FQDN
- SIEM IP Address:** Enter Text
- SIEM TCP Port:** Enter Text
- SIEM Rate:** Unlimited (selected), Limited
- Log Type:** Web Log
- Feed Output Type:** CSV
- Feed Escape Character:** ,
- Feed Output Format:**

```

"%s{time}", "%s{login}", "%s{proto}", "%s{eurl}", "%s{action}", "%s{appname}", "%s{appclass}", "%d{reqsize}", "%d{respsize}", "%s{uriclass}"
, "%s{urlsupercat}", "%s{uricat}", "%s{malwarecat}", "%s{threatname}", "%d{riskscore}", "%s{dipeng}", "%s{dipdct}", "%s{location}", "%s{dept}"
, "%s{cip}", "%s{sip}", "%s{reqmethod}", "%s{respcode}", "%s{ua}", "%s{referer}", "%s{ruletype}", "%s{rulelabel}", "%s{contenttype}"
, "%s{uncannabletype}", "%s{deviceowner}", "%s{devicehostname}", "%s{keyprotectiontype}"

```

- a. **Feed Name** - Enter or edit the name of the feed. Each feed is a connection between NSS and your NetWitness Platform.
- b. **NSS Type** - Choose **NSS for Web**.
- c. **NSS Server** - Choose the **NSS Server** that you have created from the list.
- d. **Status** - The NSS feed is **Enabled** by default. Choose **Disabled** if you want to activate it at a later time.
- e. **SIEM Destination Type** - The SIEM Destination Type is set to **IP Address** by default. Choose **IP Address** if not.
- f. **SIEM IP Address** - Enter the IP address of the NetWitness Log Decoder or Remote Log Collector to which the logs are streamed.
- g. **SIEM TCP Port** - Set TCP port to 514 for NetWitness Log Decoder or Remote Log Collector.
- h. **SIEM Rate** – Leave as **Unlimited**, unless you need to throttle the output stream due to licensing or other constraints.
- i. **Log Type** - Choose **Web Log**.
- j. **Feed Output Type** - Choose **RSA Security Analytics**.
- k. **Feed Output Format** - Add the following log format in the Feed Output Format text box.

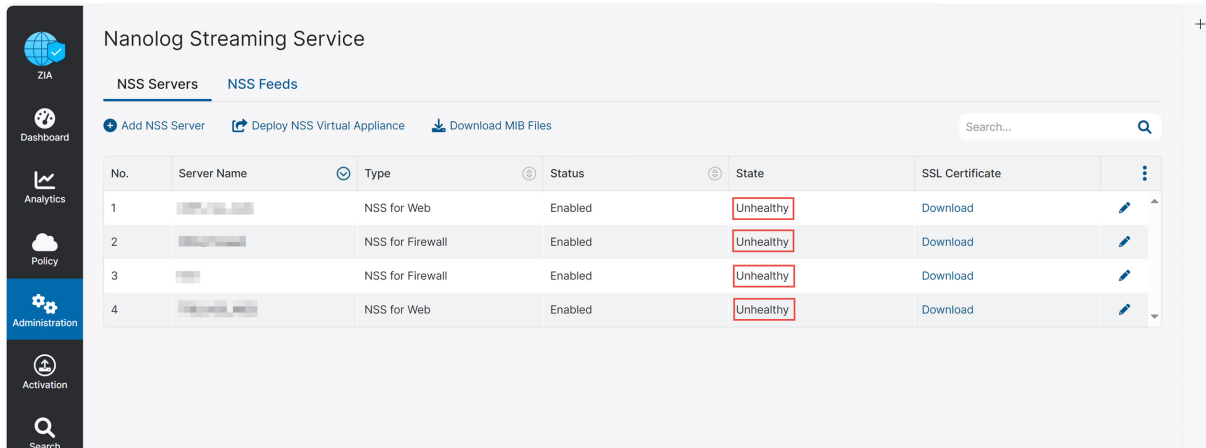

```
<134>1 ZSCALERNSS: time=%s{time}^^timezone=%s{tz}^^action=%s
{action}^^reason=%s{reason}^^hostname=%s{ehost}^^protocol=%s
{proto}^^serverip=%s{sip}^^url=%s{eurl}^^urlcategory=%s
{urlcat}^^urlclass=%s{urlclass}^^dlpdictionaries=%s
{dlpdict}^^dlpengine=%s{dlpeng}^^filetype=%s
{filetype}^^threatcategory=%s{malwarecat}^^threatclass=%s
{malwareclass}^^pagerisk=%d{riskscore}^^threatname=%s
{threatname}^^clientpublicIP=%s{cintip}^^ClientIP=%s{cip}^^location=%s
{location}^^referrerURL=%s{ereferer}^^useragent=%s{ua}^^department=%s
{dept}^^user=%s{login}^^event_id=%d{recordid}^^requestmethod=%s
{reqmethod}^^requestsize=%d{reqsize}^^requestversion=%s
{reqversion}^^status=%s{respcode}^^responsesize=%d
{respsize}^^responseversion=%s{respversion}^^transactionsize=%d
{totalsize}^^contenttype=%s{contenttype}^^unscannabletype=%s
{unscannabletype}^^deviceowner=%s{deviceowner}^^devicehostname=%s
{devicehostname}^^keyprotectiontype=%s{keyprotectiontype}^^login=%s
{login}^^filename=%s{filename}^^filesubtype=%s{filesubtype}^^upload_
filetype=%s{upload_filetype}^^upload_filename=%s{upload_
filename}^^upload_filesubtype=%s{upload_filesubtype}^^host=%s
{host}^^uaclass=%s{uaclass}^^mobappname=%s{mobappname}^^mobdevtype=%s
{mobdevtype}^^clt_sport=%d{clt_sport}^^cltipv6=%s
{cltipv6}^^dfhosthead=%s{df_hosthead}^^dfhostname=%s{df_
hostname}^^deviceostype=%s{deviceostype}\n
```

IMPORTANT: If you want to capture additional fields, add them as new values separated by ^^ in the above format. A custom parser must be created to parse the newly added field.

- l. **Timezone of the date and time in log output** - By default, this is set to the organization's time zone. The time zone you set applies to the time field in the output file. The time zone automatically adjusts to changes in daylight savings in the specific time zone. The configured time zone can be output to the logs as a separate field. The list of timezones is derived from the IANA Time Zone database. Direct GMT offsets can also be specified.
 - m. **Duplicate Logs** - To ensure that no logs are skipped during any down time, specify the number of minutes that NSS will send duplicate logs. (For more information, see NSS Resiliency.)
 - n. **Web Log Filters** - Optionally, you can define filters to limit which logs are sent to the SIEM.
5. Click **Save** and [activate the change](#).

Configure ZIA to Send Other Logs to the NetWitness Platform

1. Log in to the ZScaler Portal with your admin account credentials.
2. Navigate to **Administration > Nanolog Streaming Service > NSS Servers** tab.
3. Click **Add NSS Server**. See [Adding NSS Servers](#) to add an NSS Server.



Note: Ensure that the NSS server **State** is *Healthy*.

4. Click **Add NSS Feed** and input the following information:

Add NSS Feed

NSS FEED

Feed Name:

NSS Server:

SIEM Destination Type: IP Address FQDN

SIEM TCP Port:

SIEM Rate: Unlimited Limited

Log Type:

Feed Escape Character:

Feed Output Format:

```
[%s{time}],[%s{login}],[%s{proto}],[%s{eurl}],[%s{action}],[%s{appname}],[%s{apppass}],[%s{reqsize}],[%s{respsize}],[%s{urlclass}],[%s{urlsupercat}],[%s{urlicat}],[%s{malwarecat}],[%s{threatname}],[%s{riskscore}],[%s{dipeng}],[%s{dipdict}],[%s{location}],[%s{dept}],[%s{cip}],[%s{sip}],[%s{reqmethod}],[%s{respcode}],[%s{ua}],[%s{referrer}],[%s{ruletype}],[%s{rulename}],[%s{contenttype}],[%s{uncannabletype}],[%s{deviceowner}],[%s{devicehostname}],[%s{keyprotectiontype}]
```

Buttons:

- a. **Feed Name** - Enter or edit the name of the feed. Each feed is a connection between NSS and your NetWitness Platform.
 - b. **NSS Type** - Choose **NSS for Web** or **NSS for FireWall**.
 - c. **NSS Server** - Choose the **NSS Server** that you have created from the list.
 - d. **Status** - The NSS feed is **Enabled** by default. Choose **Disabled** if you want to activate it at a later time.
 - e. **SIEM Destination Type** - The SIEM Destination Type is set to **IP Address** by default. Choose **IP Address** if not.
 - f. **SIEM IP Address** - Enter the IP address of the NetWitness Log Decoder or Remote Log Collector to which the logs are streamed.
 - g. **SIEM TCP Port** - Set TCP port to 514 for NetWitness Log Decoder or Remote Log Collector.
 - h. **SIEM Rate** - Leave as **Unlimited**, unless you need to throttle the output stream due to licensing or other constraints.
 - i. **Log Type** - Choose any one of the Log Type (Tunnel, Firewall, DNS, SAAS Security, or SAAS Security Activity). If you want configure ZIA to send WebLogs to NetWitness, see [Configure ZIA to Send WebLog Logs to the NetWitness Platform](#).
 - j. **Feed Output Type** - Choose **Json**.
 - k. **Feed Output Format** - Add "<134>ZSCALERZIA: " in the beginning of the Feed output format.

Note: When you add "<134>ZSCALERZIA: ", the **Log Template** field will be changed to **Custom**. Do not change it back to **JSON**. NetWitness recommends you to copy and paste "<134>ZSCALERZIA: ", including the space after the colon ":".
 - l. **Timezone of the date and time in log output** - By default, this is set to the organization's time zone. The time zone you set applies to the time field in the output file. The time zone automatically adjusts to changes in daylight savings in the specific time zone. The configured time zone can be output to the logs as a separate field. The list of timezones is derived from the IANA Time Zone database. Direct GMT offsets can also be specified.
 - m. **Duplicate Logs** - To ensure that no logs are skipped during any down time, specify the number of minutes that NSS will send duplicate logs. (For more information, see NSS Resiliency.)
 - n. **Select which logs are sent to the SIEM...** - Optionally, you can define filters to limit which logs are sent to the SIEM.
5. Click **Save** and [activate the change](#).

Getting Help with NetWitness Platform

Self-Help Resources

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

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

Contact NetWitness Support

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

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

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

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

Feedback on Product Documentation

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