NetWitness[®] Platform XDR Fluentd Integration and Configuration Guide



Fluentd

Event Source Product Information:

Vendor: CNCF Event Source: Event sources supported by Fluentd Versions: V1.18

NetWitness Product Information:

Supported On: NetWitness Platform XDR 12.3 and later Event Source Log Parser: Parser Specific to Event Sources to be Used Collection Method: Using NetWitness Output Plugin for Fluntd via Logstash Event Source Class.Subclass: Configuration Management

Contact Information

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

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Fluentd is an open source data collector, which lets you unify the data collection and consumption for a better use and understanding of data. To collect events through fluentd and ship it to NewWitness via NW managed LogStash we need to install output plugin "netwitnes" for fluentd. The output plugin "netwitness" for fluentd would collect events from fluentd eco system and forward them to NW managed LogStash. LogStash would forward the events to NW LogDecoder for further processing.

Event Flow:

Fluentd \rightarrow Netwitness output plugin \rightarrow Logstash custom pipeline -> NW LogDecoder

Fluentd NetWitness integration Architecture:



To forward the events from Fluentd to NetWitness, you must complete these tasks:

- I. Install Fluentd
- II. Install Netwitness Output Plugin for Fluentd Event Collection
- III. Create LogStash Custom Pipeline
- IV. Configure Fluentd

Install Fluentd

To install Fluentd:

Follow the steps mentioned in official fluentd portal to install fluentd https://docs.fluentd.org/installation. This step can be skipped if Fleuntd is already installed.

Install Netwitness Output Plugin for Fluentd Event Collection

To install NetWitness output plugin for Fluentd event collection:

Download the output plugin "netwitness" from https://community.netwitness.com/t5/netwitness-platform-downloads/netwitness-fluentd-output-plugin-download/ta-p/699523 and run the following command on the host where fluent is installed.

td-agent-gem install <<path>>/fluent-plugin-netwitness-1.0.1.gem

Create LogStash Custom Pipeline

To create LogStash custom pipeline:

- 1. NetWitness Platform XDR menu, select Admin > Services. The Services view is displayed.
- 2. In the Services grid, select a Log Collector service, and from the Actions (*) menu, choose View > Config.
- 3. In the Event Sources view, select Logstash / Config from the drop-down menu.



4. In the **Event Categories** panel toolbar, click . Select custom event category and create a pipeline by providing required details.

lame *	test fluentd
nabled	
Description	Enter description for Logstash pipeline
nput Configuration *	input { tcp{ port => 24224 } }
ilter Configuration *	filter()
Vevice Type *	rhlinux
ource Address	10.125.245.19
lessage ID	Enter message group ID to bypass header parsing
Aessage Prefix	Optional prefix added to each message to assist parsing
vent Destination *	logdecoder
Advanced	
Debug	Off
Destination SSL	×.
egacy Codec	
dditional Custom Configuration	input { additional custom input configuration here } filter { additional custom filter configuration here } output { additional custom output configuration here }
tequired Plugins	comma separated list of required plugins for this pipeline
Ports	24224
ipeline Workers	0
)Configuration can be save Test Configuration	d only when the test configuration is successful

Sample custom logstash pipeline to collect event from Fluentd:

Configure Fluentd

To configure Fluentd:

Make configuration changes in the Fleuntd configuration file **etc/td-agent/td-agent.conf** in the host where Fluentd is installed. This enables Fluentd to collect the events and forward to NW LogStash.

For illustration purposes, we have explained the mandatory input and output plugin configurations. Other plugins such as filter, parser and formatter can be referred from https://docs.fluentd.org/ and used based on need basis.

Input Plugin Configuration:

Only for illustration purposes, we have used fluentd provided "tail" input plugin. Customer can use any other input plugin supported by fluentd as per their need. More details on supported input plugins and required configuration, refer https://docs.fluentd.org/input.

<source> @type tail path /var/log/messages pos_file /var/log/td-agent/httpd-access.log.pos tag NwLogs_lc <parse> @type none </parse> </source>

Output Plugin Configuration:

In order to transfer the events to NW managed LogStash and eventually to NW LD, we must use output plugin "netwitness" installed in <u>Install Netwitness Output Plugin for Fluentd Event Collection</u>. This plugin forwards events over TCP and supports both SSL and non SSL communications.

Non SSL communication:

```
<match NwLogs_lc>
@type Netwitness
host <<logstash host>>
port <<logstash port>>
use_ssl false
</match>
```

SSL Enabled Communication:

```
<match NwLogs_lc>
@type netwitness
host <<Logstash host>>
ssl_port <<Logstash port>>
use_ssl true
ssl_cacert /var/log/td-agent/truststore/org_ca.crt
ssl_key /var/log/td-agent/truststore/client.key
```

```
ssl_cert /var/log/td-agent/truststore/client_combined.crt
```

</match

Once config changes are made, restart the fluentd service using the following command:

systemctl restart td-agent.service

Note:

- By default, NW managed LogStash custom pipeline uses NetWitness codec and forwards the events in RFC – 5424 formats.

- Based on the event sources, select the Log Parsers to be deployed. If NW provided Log Parsers do not exist for any specific event type, then custom Log Parser can be developed and used.

Getting Help with NetWitness Platform XDR

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 XDR 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 nwdocsfeedback@netwitness.com to provide feedback on NetWitness Platform documentation.