Micro Focus Security ArcSight SmartConnectors

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Configuration Guide for BroadWeb NetKeeper IDP Syslog SmartConnector

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Micro Focus
The Lawn
22-30 Old Bath Road
Newbury, Berkshire RG14 1QN
UK

https://www.microfocus.com

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Configuration Guide for BroadWeb NetKeeper IDP Syslog SmartConnector

This guide provides information for installing the SmartConnector for Broadweb NetKeeper IDP Syslog and configuring the device for syslog event collection.

Intended Audience

This guide provides information for IT administrators who are responsible for managing the ArcSight SmartConnectors.

Additional Documentation

The ArcSight SmartConnectors documentation library includes the following resources:

- *Installation Guide for ArcSight SmartConnectors*, which provides detailed information about installing SmartConnectors.

- *Configuration Guides for ArcSight SmartConnectors*, which provides information about configuring SmartConnectors to collect events from different sources.

- *Release Notes for ArcSight SmartConnectors*, which provides information about the latest release

For the most recent version of this guide and other ArcSight SmartConnector documentation resources, visit the documentation site for ArcSight SmartConnectors.

Contact Information

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Product Overview

BroadWeb's NetKeeper is an intrusion detection device that detects intrusion accurately and, in real-time, blocks malicious packets before their entries.

Configuration

Configuring the Device for Event Collection

See the BroadWeb NetKeeper documentation for information about configuring the device for syslog event collection.

Configuring for the Syslog SmartConnectors

The syslog SmartConnectors use a sub-connector architecture that lets them receive and process syslog events from multiple devices. There is a unique regular expression that identifies the device. For example, the same SmartConnector can process events from a Cisco Router and a NetScreen Firewall simultaneously. The SmartConnector inspects all incoming messages and automatically detects the type of device that originated the message.

You can install the syslog SmartConnector as a syslog daemon, pipe, or file connector. You can use the Syslog Deamon, Syslog Deamon NG, or Syslog File connector types depending on your requirement. The Syslog File type SmartConnectors also support Syslog Pipe.

Syslog Daemon SmartConnector

The Syslog Deamon SmartConnector is a syslogd-compatible daemon designed to work in operating systems that have no syslog daemon in their default configuration, such as Microsoft Windows. The SmartConnector for Syslog Daemon implements a UDP receiver on port 514 by default, or can be configured on another port to receive syslog events. You can also configure to use the TCP protocol.

To use the SmartConnector for Syslog Daemon, add the following statement in the *rsyslog.conf* file:

`*.* @@(remote/local-host-IP):514`

Example: `local1.warning @@10.0.0.1:514`

- To read all Syslog events, use *.*
- To filter specific events, replace regex with the specific event name.
- For example: *.* @@(remote/local-host-IP):514 and local1.warning @@10.0.0.1:514.

- To send events over a TCP connection, use @@ and to send events over an UDP connection, use @.

If you are running SmartConnector for Syslog Daemon on the same machine as the server, you must provide the IP address of the local host. If you want to forward events to other machines, you must provide the IP address of the same.

Messages longer than 1024 bytes might be split into multiple messages on syslog daemon. No such restriction exists on syslog file or pipe.

Syslog Pipe and File SmartConnectors

When a syslog daemon is already in place and configured to receive syslog messages, an extra line in the syslog configuration file *rsyslog.conf* can be added to write the events to either a file or a system pipe and the ArcSight SmartConnector can be configured to read the events from it. In this scenario, the ArcSight SmartConnector runs on the same machine as the syslog daemon. The additional configurations for the ArcSight syslog file or syslog pipe SmartConnectors in the system where all Syslog Daemon SmartConnector configurations are done.

The Syslog Pipe SmartConnector is designed to work with an existing syslog daemon. This SmartConnector is especially useful when storage is a factor. In this case, syslogd is configured to write to a named pipe, and the Syslog Pipe SmartConnector reads from it to receive events.

The Syslog File SmartConnector is similar to the Pipe SmartConnector. However, this SmartConnector monitors events written to a syslog file such as messages.log rather than to a system pipe.

Using the SmartConnector for Syslog Pipe or File

This section provides information to set up your existing syslog infrastructure to send events to the ArcSight Syslog Pipe or File SmartConnector.

The standard UNIX implementation of a syslog daemon reads the configuration parameters from the /etc/rsyslog.conf file, which contains specific details about which events to write to files, write to pipes, or send to another host.

For Syslog Pipe:

1. Execute the following command to create a pipe:

```
mkfifo /var/tmp/syspipe
```

2. Add one of the following lines depending on your OS to the *etc/rsyslog.conf* file:

```
*.debug  /var/tmp/syspipe
```

or

```
*.debug   |/var/tmp/syspipe
```

3. Restart the syslog daemon in one of the following methods:
   Enter the following commands:

```
/etc/init.d/syslogd stop
/etc/init.d/syslogd start
```

or

Execute the following command to send a configuration restart signal:

On RedHat Linux:

```
service syslog restart
```

On Solaris:

```
kill -HUP `cat /var/run/syslog.pid´
```

For Syslog File:

1. Create a file or use the default file into which log messages must be written.

2. Modify the /etc/rsyslog.conf file

   The syslog daemon is forced to reload the configuration and start writing to the pipe.

3. Restart the syslog daemon in one of the following methods:

   a. Restart the syslog daemon in one of the following methods:
      Enter the following commands:

```
/etc/init.d/syslogd stop
/etc/init.d/syslogd start
```

   or

   Execute the following command to send a configuration restart signal:

   On RedHat Linux:

```
service syslog restart
```

   On Solaris:

```
kill -HUP `cat /var/run/syslog.pid´
```

Installing the SmartConnector

The following sections provide instructions for installing and configuring your selected SmartConnector.

Preparing to Install the SmartConnector

Before you install any SmartConnectors, make sure that the Micro Focus ArcSight products with which the connectors will communicate have already been installed correctly (such as ArcSight ESM or ArcSight Logger).

For complete product information, refer to the *Administrator's Guide to ArcSight Platform*, available on ArcSight Documentation.

If you are adding a connector to the ArcSight Management Center, see the *ArcSight Management Center Administrator's Guide* available on ArcSight Documentation for instructions.

Before installing the SmartConnector, make sure that the following are available:

- Local access to the machine where the SmartConnector is to be installed
- Administrator passwords

Installing and Configuring the SmartConnector

Unless specified otherwise at the beginning of this guide, this SmartConnector can be installed on all ArcSight supported platforms.

1. Start the installation wizard.
2. Follow the instructions in the wizard to install the core software.
3. Specify the relevant Global Parameters, when prompted.
4. Do one of the following depending on your requirement:

- Select **Syslog Daemon** from the **Type** drop-down:
  a. Click **Next**, the specify the following paramenters:

Parameters	Description
Network port	The SmartConnector for Syslog Daemon listens for syslog events from this port.
IP Address	The SmartConnector for Syslog Daemon listens for syslog events only from this IP address, apart from the default (ALL) to bind to all available IP addresses.
Protocol	Specify whether to read files in batch mode or real-time mode. In batch mode, all files are read from the beginning.
Forwarder	This option applies to Batch Mode only. Specify **None**, **Rename**, or **Delete** as the action to be performed to the file when the connector finishes reading and reaches end of file . For the real-time mode, retain the default value **None**.

  b. **Click Next.**

- Select **Syslog File** from the **Type** drop-down:

a. Click **Next**, the specify the following paramenters:

Parameters	Description
Pipe Absolute Path Name	Specify an absolute path to the pipe, or accept the default value: `/var/tmp/syspipe`.
File Absolute Path Name	Specify the full path name for the file from which this connector will read events. The following are default values: • **Solaris:** `\var\adm\messages` • **Linux:** `\var\log\messages` You can use a wildcard pattern in the file name. In the real-time mode, rotation can occur only if the file is over-written or removed from the folder. The real-time processing mode assumes the following external rotation: • **Date format log rotation:** The device creates a new log at a specified time in the with the naming convention `filename.timestamp.log`. The connector detects the new log and terminates the reader thread to the previous log after the processing is complete. The connector then creates a new reader thread to the new `filename.timestamp.log` and begins processing that file. To enable this log rotation, specify timestap in `yyyy-MM-dd` date format. For example, `filename.yyyy-MM-dd.log` • **Index log rotation:** The device writes to indexed files in the following format: `filename.log.001, filename.log.002, filename.log.003`, and so on. At startup, the connector processes the log with highest index. When the device creates a log with a greater index, the connector terminates the reader thread to the previous log after processing completes, creates a thread to the new log, and begins processing that log. To enable this log rotation, use an index format, as shown in the following example:`filename'%d,1,99,true'.log;` Specifying `true` indicates that the index can be skipped. For example, if 5 appears before 4, processing proceeds with 5 and will not read 4. Use of `true` is optional.

Parameters	Description
Reading Events Real Time or Batch	Specify whether to read files in batch mode or real-time mode. In batch mode, all files are read from the beginning.
Action Upon Reaching EOF	This option applies to Batch Mode only. Specify **None**, **Rename**, or **Delete** as the action to be performed to the file when the connector finishes reading and reaches end of file . For the real-time mode, retain the default value **None**.
File Extension If Rename Action	This option applies to Batch Mode only. Specify the extension to be added to the file name if the action on reaching the end of file is specified as **Rename**. The default value is **Processed**, which adds a `.processed` extension.

   b. Click **Next.**

5. Select a destination and configure parameters.

6. Specify a name for the connector.

7.   If you have selected ArcSight Manager as the destination, the certificate import window for the ArcSight Manager is displayed. Select **Import the certificate to the connector from destination** and click **Next**. (If you select **Do not import the certificate to connector from destination**, the connector installation will end.) The certificate is imported and the **Add connector Summary** window is displayed.

8. Select whether you want to run the connector as a service or in the standalone mode.

9. Complete the installation.

10. Run the SmartConnector.

   For instructions about upgrading the connector or modifying parameters, see SmartConnector Installation and User Guide.

Device Event Mapping to ArcSight Fields

The following section lists the mappings of ArcSight data fields to the device's specific event definitions. See the *ArcSight Console User's Guide* for more information about the ArcSight data fields.

BroadWeb NetKeeper Mappings to ArcSight ESM Fields

ArcSight ESM Field	Device-Specific Field
ArcSight Severity (High)	crit
ArcSight Severity (Low)	warning, notice, info, debug
ArcSight Severity (Medium)	err
ArcSight Severity (Very High)	emerg, alert
Destination Address	dstIp
Destination Port	dstPort
Device Action	action
Device Address	Device IP
Device Custom Number 1	Rule Id
Device Custom Number 2	Packet Count
Device Custom String 1	Rule Name
Device Custom String 2	Origin
Device Custom String 3	Extra Info

ArcSight ESM Field	Device-Specific Field
Device Custom String 4	Device Name
Device Event Category	cat
Device Event Class Id	cat plus action
Device Inbound Interface	IfNo
Device Product	Device Type (for example, NetKeeper, NK6000)
Device Receipt Time	Record Time
Device Severity	Syslog priority (emerg(0), alert(1), crit(2), err(3), warning(4), notice(5), info(6), debug(7))
Device Vendor	'BroadWeb'
End Time	eTime
Message	Message description
Name	cat plus action
Source Address	srcIp
Source Port	srcPort
Start Time	bTime

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