

Log Source Configuration Guide

Log Source Configuration Guide: Unix-Linux-BSD-OS X

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Classification CONFIDENTIAL



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1. Introduction

1.1 Purpose of the document

This Log Source Configuration guide provides information regarding the integration of the Unix, Linux, BSD & OSX systems with the MSS/MDR Service. In the chapters below, detailed information regarding the logging enablement, optimization and formatting is provided.

1.2 Log source information

Unix/Linux-based Log Sources are a family of free and open-source software operating systems built around the Unix/Linux kernel.

1.3 Event & logging information

By integrating any of this type of log sources, Encode MSS/MDR Service will be able to monitor authentication events, system events, scheduled tasks, session-related events, etc.

1.4 Limitations

Encode Use Case Framework is based on the events that are produced by the Unix/Linux/BSD/ OSX systems. The Correlation Engine is unable to identify behaviours that are not reported by the Operating System.

1.5 Known Issues

There are no known issues for this log source.



2. Logging Configuration

2.1 Rsyslog Configuration

In order to configure your Unix Operating system using rsyslog mechanism the following steps are required:

- 1. Login on the system using valid credentials and escalate to a privileged user.
- 2. Edit the file /etc/rsyslog.conf with a text editor.
- 3. Append the following line usually found in the end of the configuration file.

```
*.info @@<CPE_HVEC_IP_Address>:10006
```

In order to properly complete the destination IP address, please consult the field "Event Collection" on the Unix sheet.

4. Use the following command to make SELinux allow log transfer to 10006 port.

```
semanage port -a -t syslogd_port_t -p tcp 10006
```

5. Restart the rsyslog service using the following command.

```
/etc/init.d/rsyslog restart
```

2.2 Syslog Configuration

In order to configure your Unix Operating System using syslog mechanism the following steps are required:

- 1. Login on the system using valid credentials and escalate to a privileged user.
- 2. Edit the file /etc/syslog.conf with a text editor.
- 3. Append the following line at the beginning of the file under "Global Directives" section.
- 4. Append the following line:

```
*.info @<CPE_HVEC_IP_Address>
```

5. Restart the syslog service using relative command, according to the operating system type and version.

2.3 Syslog-ng Configuration

In order to configure your Unix devices using syslog-ng mechanism the following steps are required:

- Login on the system using valid credentials and escalate to a privileged user.
- 2. Edit the file /etc/syslog-ng.conf with a text editor.
- 3. Append the following configuration:

4. Restart the syslog-ng service using the following command.

```
/etc/init.d/syslog-ng restart
```



2.4 Verification of configuration

In order to verify if the communication paths are enabled for syslong-ng and rsyslog configuration and the configuration is correct follow the commands below:

1. Netcat command:

nc -vz <CPE_HVEC_IP_Address> 10006

If successful you should see a message similar to "Connection to xxx.xxx.xxx 10006 port (tcp) succeeded!"

2. Tcpdump command:

tcpdump -i any port 10006

If successful, you should see new lines created and traffic originating from the system to the relative HVEC system when trying to from another session.



3. Network Requirements

In order to complete the integration, Network Administrators should ensure that the following communication paths, to/from **Encode Customer Premises Equipment (CPE)** are properly configured as described below:

- Unix-Linux-BSD-OSX → TCP/10006 → Push Event Collector (HVEC) (for rsyslog and syslog-ng daemons)
- Unix-Linux-BSD-OSX → UDP/514 → Push Event Collector (HVEC) (for syslog daemons)

In order to identify the IP address of Encode CPEs, please consult the Scoping Worksheet in the sheet "Deployment Information"

4. Required Information

In order for the integration to complete the following information is required by Encode:

- The hostname of the server to be integrated
- The IP address of the server





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