Splunk Getting Started Guide

Version 2.0

The Trend Micro™ TippingPoint™ app contains pre-configured dashboards that highlight blocked and permitted attacks in your environment. You can also track security policy and Digital Vaccine updates and retrieve PCAPS when available.

A Security Management System (SMS) is required to send data to Splunk.

SMS configuration

SMS configuration includes creating a Splunk syslog format and configuring a syslog exporter to send events and messages to Splunk.

Create a Splunk syslog format

To integrate Splunk with the SMS, first create a Splunk syslog format. Splunk requires data in a specific format from the SMS.

Procedure

1. On the SMS, select **Admin** > **Server Properties** > **Syslog**.
2. Under **Syslog Formats**, click **New**.
3. Select **Events** from the **Log Type** drop-down list.
4. Enter a name and description.

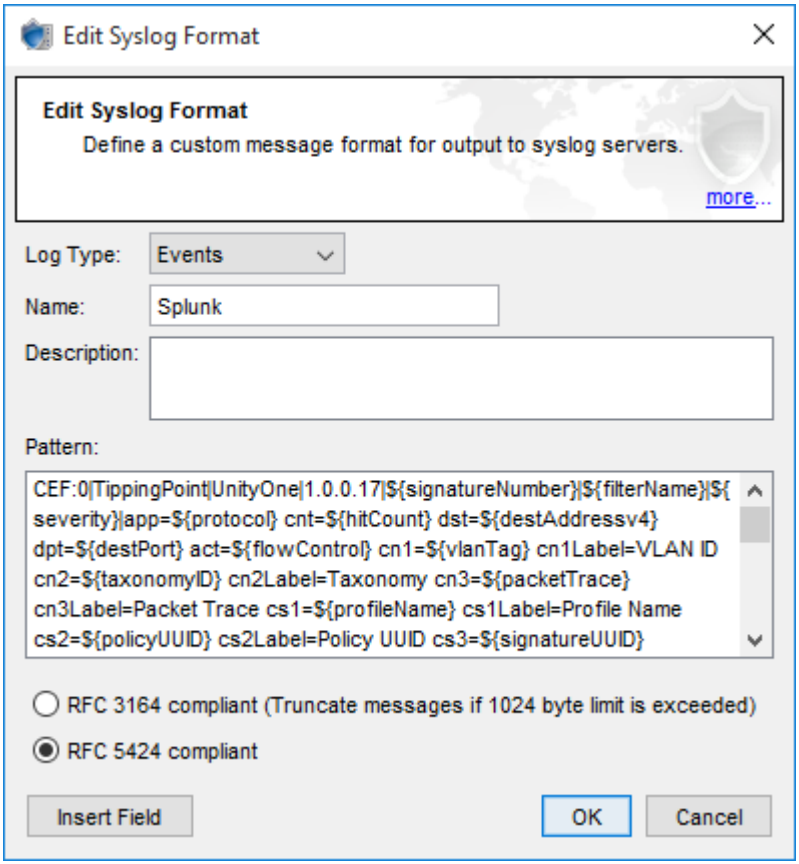
5. Enter the syslog pattern, as shown below.

Important

The example that follows has been formatted to fit the printed page. When you copy and paste this syslog format example into the SMS, make sure that you remove all line breaks. Only spaces should separate fields. If new lines get added between fields, the Splunk App regular expression will incorrectly identify IPS event logs as the wrong Splunk source type.

```
CEF:0|TippingPoint|UnityOne|1.0.0.17|${signatureNumber}|${filterName}|${severity}
|app=${protocol} cnt=${hitCount} dst=${destAddressv4} dpt=${destPort}
act=${flowControl} cn1=${vlanTag} cn1Label=VLAN ID cn2=${taxonomyID}
cn2Label=Taxonomy cn3=${packetTrace} cn3Label=Packet Trace cs1=${profileName}
cs1Label=Profile Name cs2=${policyUUID} cs2Label=Policy UUID cs3=${signatureUUID}
cs3Label=Signature UUID cs4=${deviceSegment} cs4Label=DeviceSegment
cs5=${smsName} cs5Label=SMS Name dvchost=${deviceName} cs6=${msgParameters}
cs6Label=Filter Message Parms srcip=${srcAddressv4} spt=${srcPort}
externalId=${eventID} rt=${eventTimestamp} cat=${categoryName} proto=${protocol}
deviceInboundInterface=${physicalPortIn} c6a2=${srcAddressv6} c6a2Label=Source
IPv6 c6a3=${destAddressv6} c6a3Label=Destination IPv6 request=${uriString}
requestMethod=${uriMethod} dhost=${uriHost} sourceTranslatedAddress=${clientAddressv4}
c6a1=${clientAddressv6} c6a1Label=Client IPv6 suser=${srcUserName} sntdom=${srcUserDomain}
duser=${destUserName} dntdom=${destUserDomain}
```

6. Select an RFC compliant standard.
7. Click **OK**.



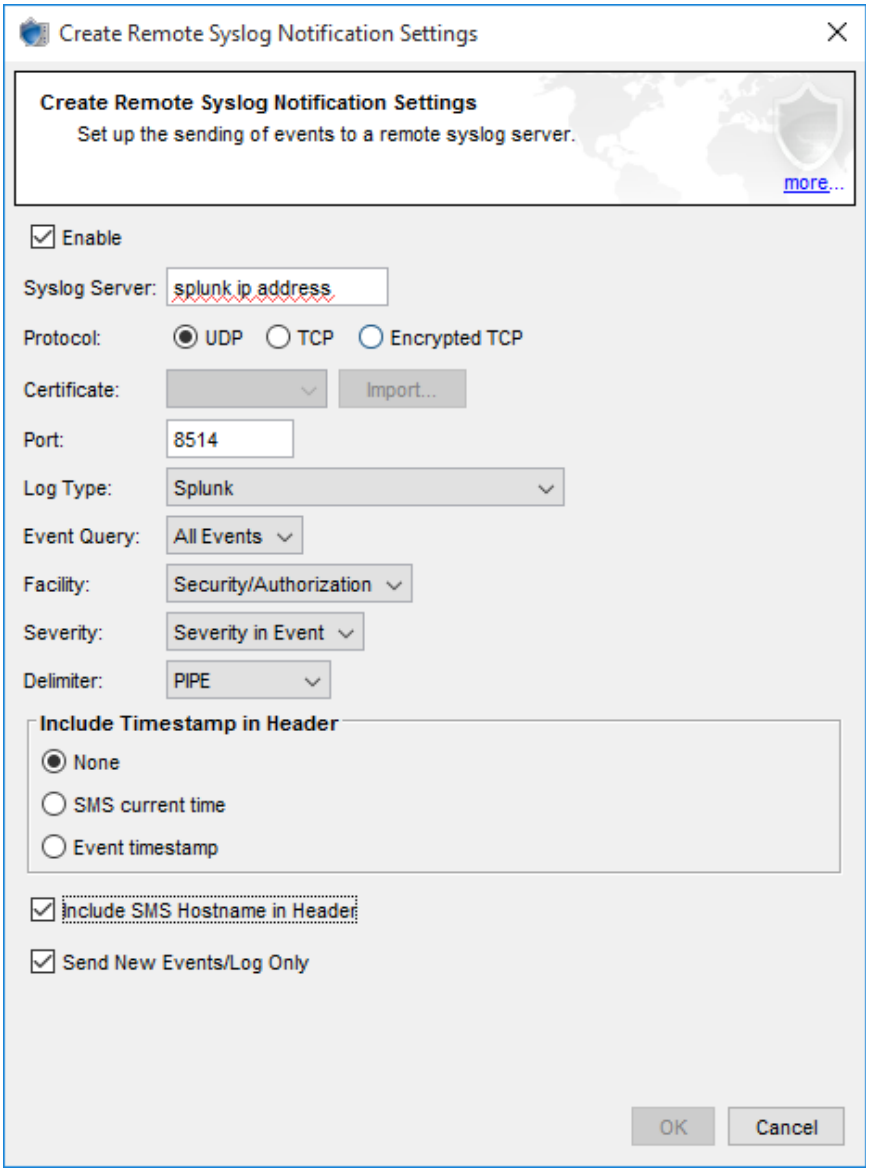
Configure syslog exporter to send events to Splunk

After you create a Splunk syslog format, you can configure the syslog exporter to send device events, including paket trace files, from the SMS to Splunk.

Procedure

1. On the SMS, select **Admin** > **Server Properties** > **Syslog**.

2. Under **Remote Syslog for Events**, click **New**.
3. Select the **Enabled** check box.
4. Enter the IP address of the Splunk server in the **Syslog Server** field.
5. Select a **Protocol**.
6. Enter `8514` for the **Port** number.
7. Select the Splunk syslog format from the **Log Type** drop-down list.
8. Select **pipe** from the **Delimiter** drop-down list.
9. Select **Include SMS Hostname in Header** to send packet trace files.
10. Select **Send New Events/Log Only**.
11. Click **OK**.


Create Remote Syslog Notification Settings
Create Remote Syslog Notification Settings
Set up the sending of events to a remote syslog server.
more...
Enable
Syslog Server:
splunk ip address
Protocol:
UDP
TCP
Encrypted TCP
Certificate:
Import...
Port:
8514
Log Type:
Splunk
Event Query:
All Events
Facility:
Security/Authorization
Severity:
Severity in Event
Delimiter:
PIPE
Include Timestamp in Header
None
SMS current time
Event timestamp
Include SMS Hostname in Header
Send New Events/Log Only
OK
Cancel

Configure syslog exporter to send messages to Splunk

After you create a Splunk syslog format, you can configure the syslog exporter to send SMS audit messages to Splunk. SMS audit messages also include Digital Vaccine and profile distribution history information.

Procedure

1. On the SMS, select **Admin** > **Server Properties** > **Syslog**.
2. Under **Remote Syslog for Events** click **New**.
3. Select the **Enable** check box.
4. Enter the IP address of the Splunk server in the **Syslog Server** field.
5. Select a **Protocol**.
6. Enter `8514` for the **Port** number.
7. Select **SMS Audit** from the **Log Type** drop-down list.
8. Select a query from the **Event Query** drop-down list.
9. Select **Log Audit** from the **Facility** drop-down list.
10. Select a severity from the **Severity** drop-down list.
11. Select **Pipe** from the **Delimiter** drop-down list.
12. Click **OK**.

Install the TippingPoint Splunk app

To install the TippingPoint app on the Splunk Enterprise platform, select **Apps** > **Browse more app** and then search for `TippingPoint`.

Alternatively, you can directly download the app from the splunkbase https://splunkbase.splunk.com/app/3532/, and then select **Install app from file**.

Search and specify time ranges

Click **Search** on the TippingPoint Intrusion Prevention System app to perform a Splunk Enterprise search and to review your search history.

To filter Splunk data by time period or to adjust the time period, select a preset from the **Period/Range**. Data is sent to Splunk as it is generated. By default, data displays in real-time (All time). You can filter your results from the last minute, hour, day, week, or month. To narrow larger sets of data to a specific time period, you can configure your own custom date and time range.

To synchronize Splunk data, reload the page on your web browser.

Summary

Click **Summary** on the TippingPoint Intrusion Prevention System app to view the following event data:

- Top permitted attacks by filter name and hit count
- Top permitted sources by source IP address, hit count, and country
- Top permitted destinations by destination IP address, hit count, and country
- Top blocked or quarantined attacks by filter name and hit count
- Top blocked or quarantined sources by source IP address, hit count, and country
- Top blocked or quarantined destinations by destination IP address, hit count, and country

Action Based

Click **Action Based** on the TippingPoint Intrusion Prevention System app to view the following action sets:

- All
- Permitted - Top attacks by filter name, top sources, and top destinations
- Blocked - Top attacks by filter name, top sources, and top destinations
- Quarantined - Top attacks by filter ID, top attacks by filter name, top sources, and top destinations

Distribution History

Click **DV Distribution History** on the TippingPoint Intrusion Prevention System app to track Digital Vaccine and profile distributions. Digital Vaccine distributions include the version and distribution time for each device. Profile distributions include the profile name, device or segment, and the distribution time.

Packet Trace

Click **Packet Trace** on the TippingPoint Intrusion Prevention System app to view packet trace information for events on the SMS. You can search for packet trace information by Event ID.

To download a packet trace, copy and paste the **API Key** from the SMS, and then click **Download**. To access the API Key on the SMS, select **Admin** > **Authentication and Authorization** > **Users** > **Authentication**.

The following information displays.

Column	Description
SMS Server Name	Domain name of the SMS server.
SMS Server IP	IP address of the SMS server.
Event ID	SMS event identifier (Event No).
Source IP	Source IP address for the event.
Source Port	Port of the source IP address.
Destination IP	Destination IP address for the event.
Destination Port	Port of the destination IP address.
Device Name	Name of the IPS/TPS device that generate the event.
Segment Number	Segment for the event.
Event Time	The time that the event was created.