

Integrate Suricata

EventTracker Enterprise

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About this Guide

This guide will facilitate a **Suricata** user to send logs to **EventTracker Enterprise**.

Scope

The configuration detailed in this guide are consistent with **EventTracker Enterprise** version 7.X and later, and **Redhat, Suse, CentOS, Fedora Operating System**.

Audience

Administrators who want to monitor **Suricata** using EventTracker Enterprise.

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Introduction

Suricata is an open source-based Intrusion Detection System (IDS), Suricata is a high performance Network IDS, IPS and Network Security Monitoring engine. Suricata uses the Yaml format for configuration.

Pre-requisites

- EventTracker 7.x or later should be installed.
- Suricata should be installed and configured.

Configure Suricata to send Syslog events to EventTracker server

- 1. Login to the Linux Redhat/CentOS machine as root.
- 2. Open Terminal window.
- 3. Open rsyslog.conf in VI Editor. vi /etc/rsyslog.conf
- 4. Add the below mentioned line in file rsyslog.conf at last.
 - *.* @IP address of EventTracker Enterprise machine: 514 Example *.* @10.10.10.167:514
- 5. Save the file using: wq
- 6. Run refresh -s syslogd

EventTracker Knowledge Pack

Once Suricata events are enabled and Suricata events are received in EventTracker: Alerts and Reports can be configured in EventTracker.

The following Knowledge Packs are available in EventTracker to support Suricata monitoring.

Alerts

Suricata High priority alert generated: This alert is generated when highest priority (1) alert has
occurred in Suricata IDS.



Feb 22 08:49:58 suzie02 Feb 22 08:50:03 suzie02 suricata[22816]: [1:2013659:4] ET POLICY Self Signed SSL Certificate (SomeOrganizationalUnit) [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 65.44.32.33:443 -> 10.23.44.56:41559

Reports

• **Suricata-Alert analysis:** This report provides information related to alerts which were detected by Suricata IDS.

Sample Report

Event Time	Device Name	Priority Value	Protocol Type	Alert Type	Alert Name	Source Address	Source Port	Destination Address	Destination Port
Feb 22 08:49:58	solsse02	1	TCP	Potential Corporate Privacy Violation	ET POLICY Self Signed SSL Certificate (SomeOrganizationalUnit)	67.210.231.119	443	10.245.8.101	41559
Feb 22 08:57:16	solsse02	2	TCP	Attempted Information Leak	ET SCAN NMAP -sA (1)	198.40.235.114	10744	10.246.1.44	443
Feb 22 08:57:21	solsse02	2	TCP	Attempted Information Leak	ET SCAN NMAP -sS window 2048	112.65.149.5	3192	10.245.70.12	53
Feb 22 09:00:33	solsse02	2	TCP	Attempted Information Leak	GPL WEB_SERVER 403 Forbidden	10.246.1.172	80	107.150.60.75	56456

Figure 1

Logs considered

Feb 22 08:49:58 suzie02 Feb 22 08:50:03 suzie02 suricata[22816]: [1:2013659:4] ET POLICY Self Signed SSL Certificate (SomeOrganizationalUnit) [Classification: Potential Corporate Privacy Violation] [Priority: 1] {TCP} 65.44.32.33:443 -> 10.23.44.56:41559

Importing Suricata knowledge pack into EventTracker

- 1. Launch EventTracker Control Panel.
- 2. Double click **Export Import Utility**, and then click **Import** tab.

Import Alert/Tokens/ Flex Reports as given below.

Note: Importing should be in the same order as mentioned above.



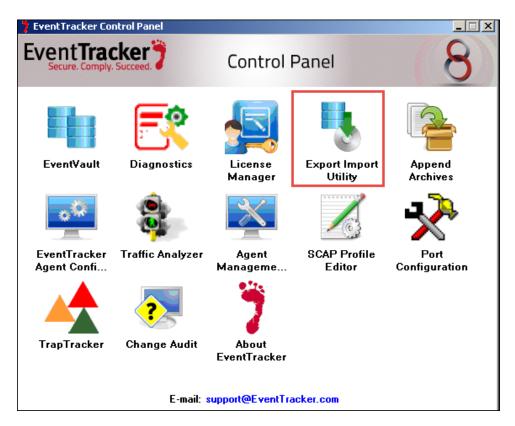


Figure 2

Alerts

1. Click **Alerts** option, and then click the **browse** button.



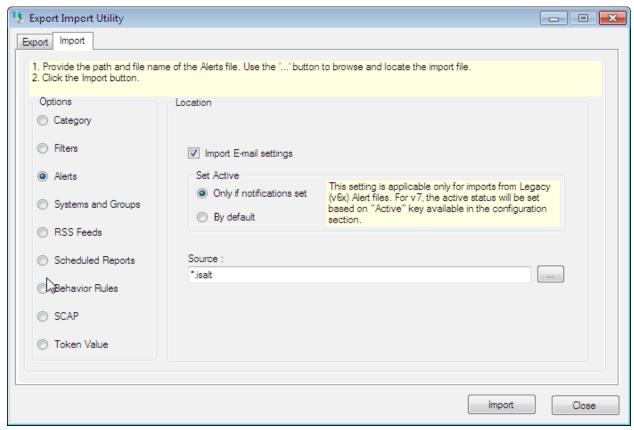


Figure 3

- 2. Locate **Suricata.isalt** file, and then click the **Open** button.
- 3. To import alerts, click the **Import** button.

EventTracker displays success message.



Figure 4

4. Click **OK**, and then click the **Close** button.



Token Templates

- 1. Click the **Admin** menu, and then click **Parsing rule**.
- 2. Select **Template** tab, and then click on 🎩 '**Import**' option.

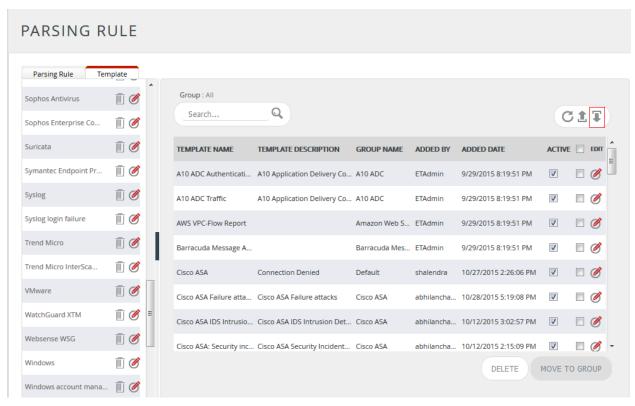


Figure 5

3. Click on Browse button.



Figure 6

4. Locate Suricata.ettd file, and then click the Open button





Figure 7

5. Now select the check box and then click on **Timport** option. EventTracker displays success message.



Figure 8

6. Click on **OK** button.

Flex Reports

1. Click **Report** option, and then click the **browse** button.



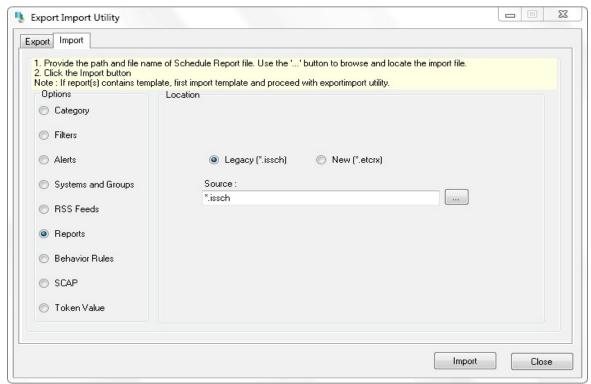


Figure 9

- 2. Locate **Suricata.issch** file, and then click the **Open** button.
- 3. To import scheduled reports, click the **Import** button.

EventTracker displays success message.

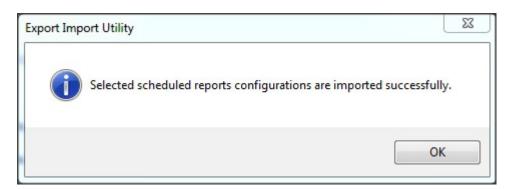


Figure 10

4. Click **OK**, and then click the **Close** button.



Knowledge Object

- 1. Click the Admin menu, and then click Knowledge Objects.
- 2. Click on **I** 'Import' option.

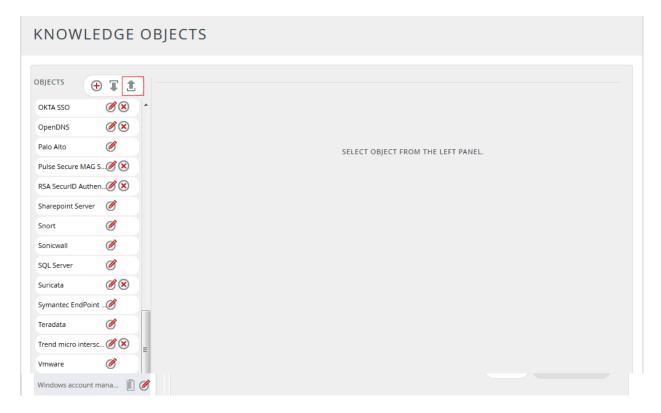


Figure 11

3. In **IMPORT** pane click on **Browse** button.

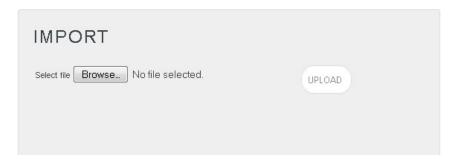


Figure 12

4. Locate **Suricata.etko** file, and then click the **UPLOAD** button.



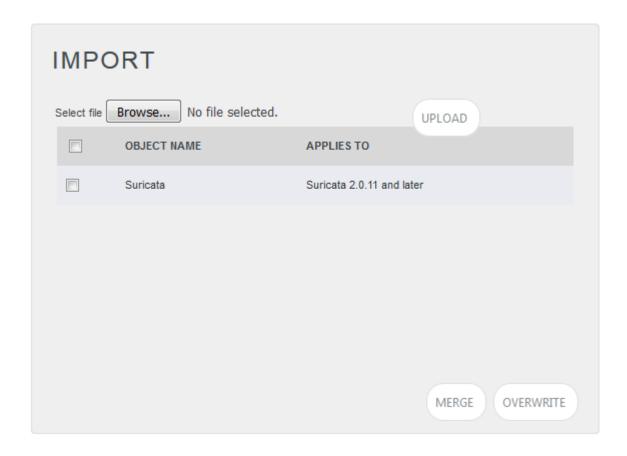


Figure 13

5. Now select the check box and then click on '**OVERWRITE**' option. EventTracker displays success message.

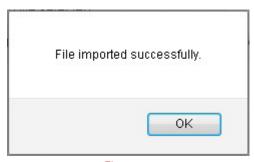


Figure 14

6. Click on **OK** button.



Verifying Suricata knowledge pack in EventTracker

Suricata Alerts

- 1. Logon to EventTracker Enterprise.
- 2. Click the Admin menu, and then click Alerts.
- 3. In **Search** field, type '**Suricata**', and then click the **Go** button.

Alert Management page will display all the imported Suricata alerts.

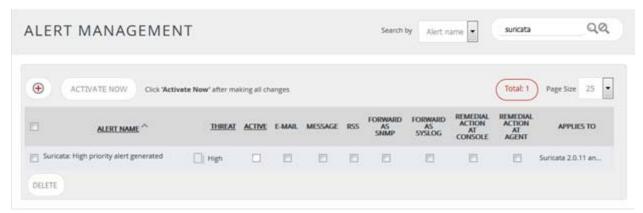


Figure 15

4. To activate the imported alerts, select the respective checkbox in the **Active** column. EventTracker displays message box.



Figure 16



5. Click **OK**, and then click the **Activate Now** button.

NOTE:

You can select alert notification such as Beep, Email, and Message etc. For this, select the respective checkbox in the Alert management page, and then click the **Activate Now** button.

Suricata Token Template

- 1. Logon to EventTracker Enterprise.
- 2. Click the Admin menu, and then click Parsing Rules.

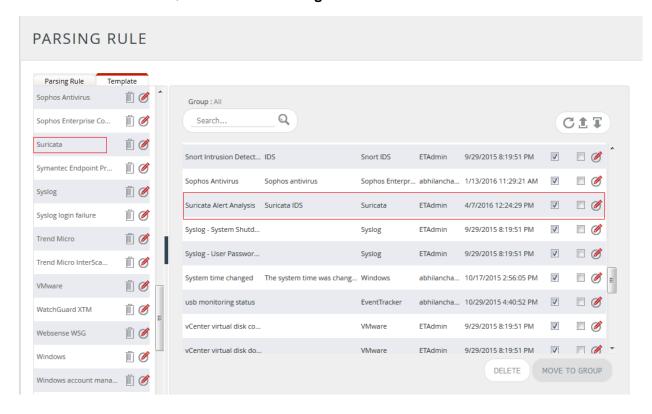


Figure 17

Suricata Reports

- 1. Logon to EventTracker Enterprise.
- 2. Click the **Reports** menu, and then select **Configuration**.
- 3. In **Reports Configuration** pane, select **Defined** option.



EventTracker displays **Defined** page.

4. In search box enter 'Suricata', and then click the Search button.

EventTracker displays Flex reports of Suricata.

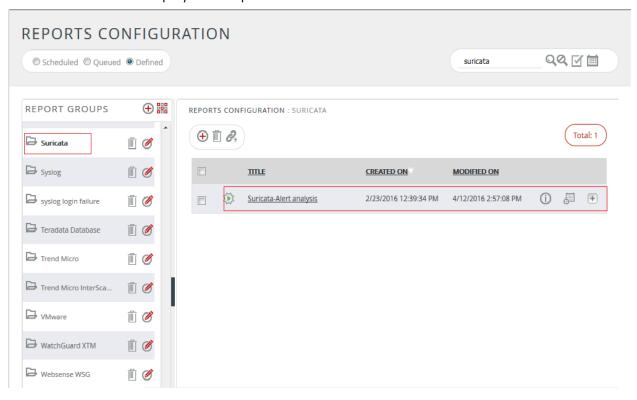


Figure 18

Suricata Knowledge Object

- 1. Click the Admin menu, and then click Knowledge Objects
- 2. Scroll down and select **Suricata** in **Objects** pane. Imported **Suricata** object details are shown.



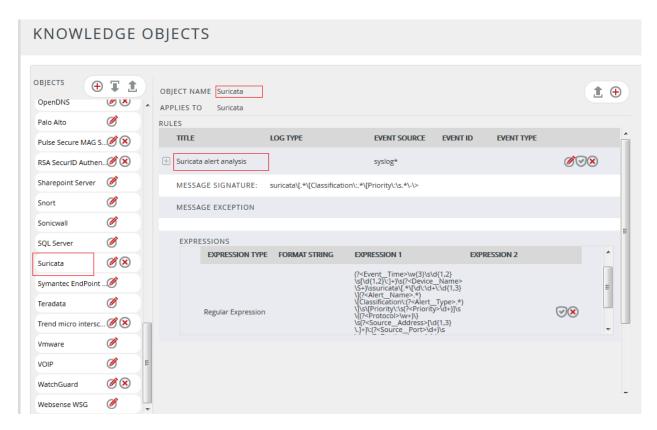


Figure 19

Create Flex Dashboards in EventTracker

Schedule Reports

1. Open **EventTracker** in browser and logon.

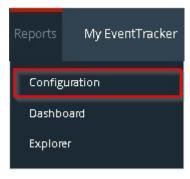


Figure 20



2. Navigate to **Reports>Configuration**.

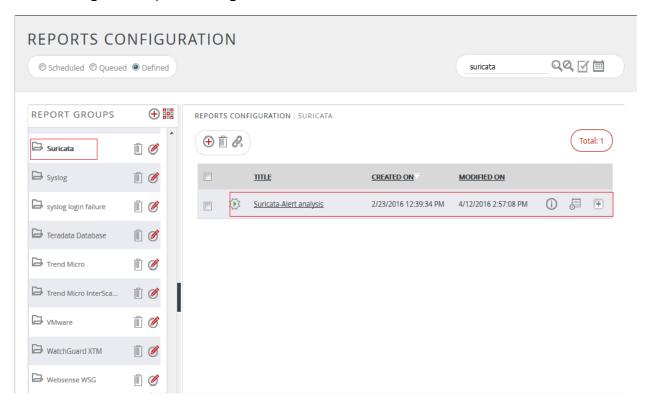


Figure 21

- 3. Select **Suricata** in report groups. Check **defined** dialog box.
- 4. Click on 'schedule' to plan a report for later execution.

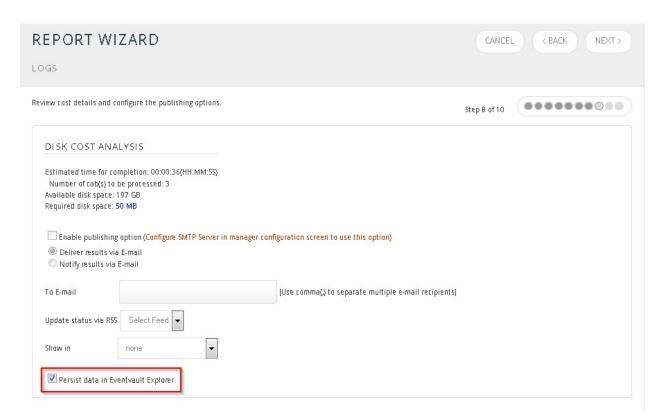


Figure 22

5. Choose appropriate time for report execution and in **Step 8** check **Persist data in Eventvault explorer** box.



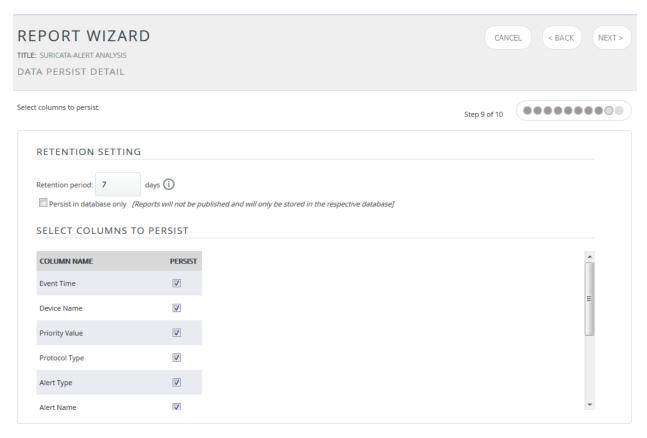


Figure 23

- 6. Check column names to persist using **PERSIST** checkboxes beside them. Choose suitable **Retention period**.
- 7. Proceed to next step and click **Schedule** button.
- 8. Wait for scheduled time or generate report manually.

Create Dashlets

- 1. **EventTracker 8** is required to configure flex dashboard.
- 2. Open **EventTracker** in browser and logon.





Figure 24

3. Navigate to **Dashboard>Flex**. Flex Dashboard pane is shown.

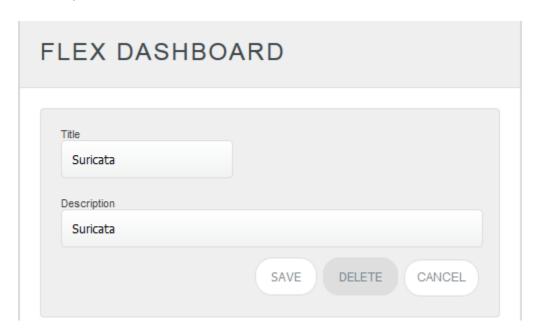


Figure 25

- 4. Fill suitable title and description and click **Save** button.
- 5. Click to configure a new flex dashlet. Widget configuration pane is shown.



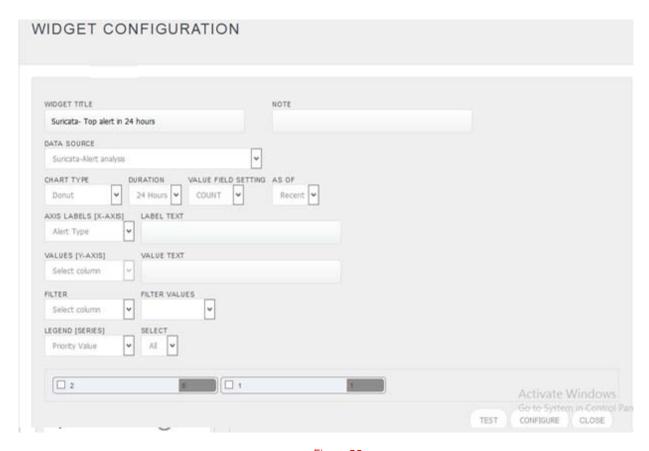


Figure 26

- 4. Locate earlier scheduled report in **Data Source** dropdown.
- 5. Select **Chart Type** from dropdown.
- 6. Select extent of data to be displayed in **Duration** dropdown.
- 7. Select computation type in **Value Field Setting** dropdown.
- 8. Select evaluation duration in as Of dropdown.
- 9. Select comparable values in **X Axis** with suitable label.
- 10. Select numeric values in Y Axis with suitable label.
- 11. Select comparable sequence in Legend.
- 12. Click **Test** button to evaluate. Evaluated chart is shown.





Figure 27

13. If satisfied, click **Configure** button



Figure 28

- 14. Click 'customize' (a) to locate and choose created dashlet.
- 15. Click 🛨 to add dashlet to earlier created dashboard.



Sample Dashboards

1. Suricata- Top alerts in 24 hours

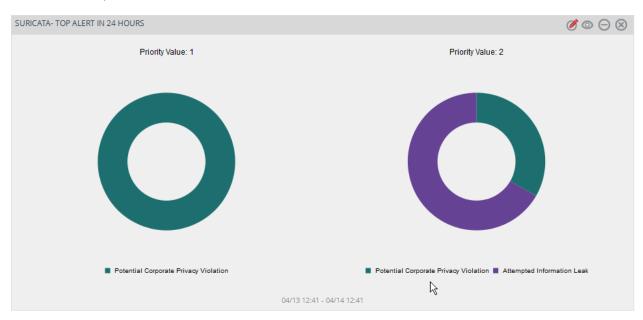


Figure 29

