



RSA Ready Implementation Guide for RSA Security Analytics

Last Modified: June 16th 2015

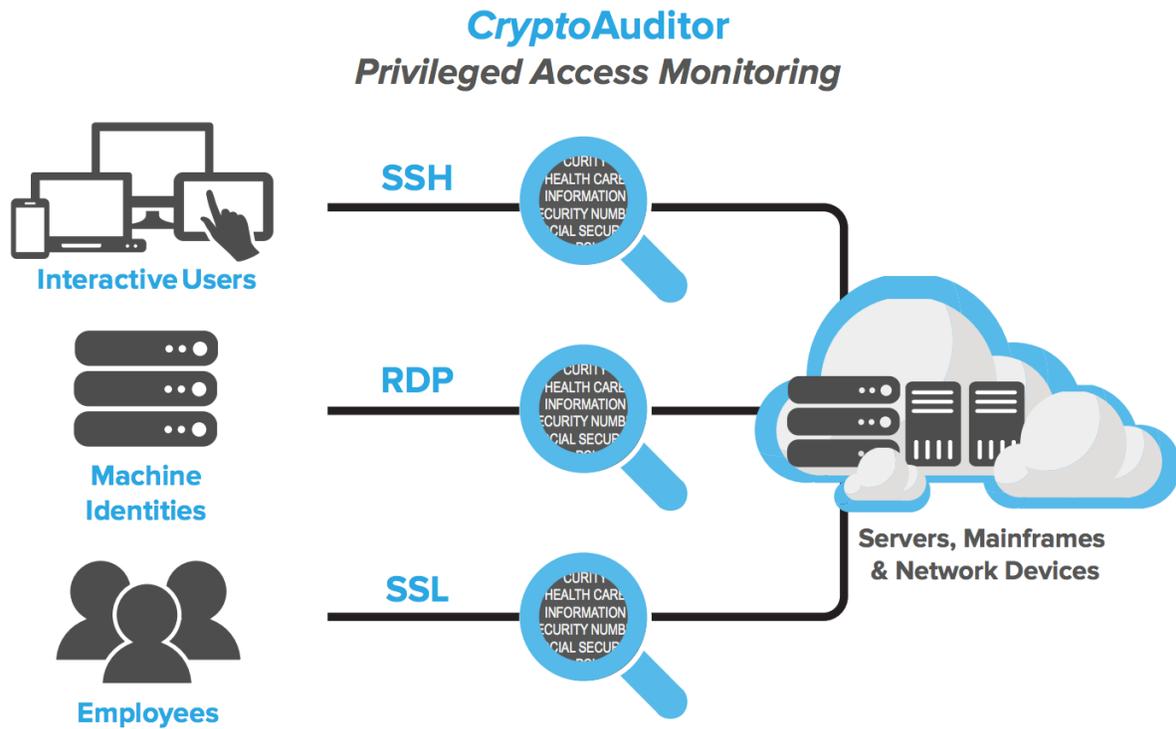
Partner Information

Product Information	
Partner Name	SSH Communications Security
Web Site	www.ssh.com
Product Name	CryptoAuditor
Version & Platform	1.5 Virtual Appliance
Product Description	Encrypted channels are vital for securing confidential information, but at the same time, they can provide a cloak for malicious activity. CryptoAuditor brings you control and visibility without compromising the security of your encrypted channels.



Solution Summary

CryptoAuditor is a transparent and centralized real-time privileged access monitoring and auditing solution that enables organizations to control trusted insider data transfer activities on the fly and without any impact on remote administrators. CryptoAuditor is designed to reduce potential security threats from trusted insiders, meet current and emerging compliance mandates and reduce costs associated with implementation and administration with a minimally invasive approach designed to work with your existing network architecture. CryptoAuditor works with RSA Security Analytics by sending decrypted SSL traffic to the Security Analytics Packet Decoder for further inspection and analysis.



Partner Product Configuration

Before You Begin

This section provides instructions for configuring CryptoAuditor for use with RSA Security Analytics. This document is not intended to suggest optimum installations or configurations.

It is assumed that the reader has both working knowledge of all products involved, and the ability to perform the tasks outlined in this section. Administrators should have access to the product documentation for all products in order to install the required components.

All CryptoAuditor components must be installed and working prior to the integration. Perform the necessary tests to confirm that this is true before proceeding.

! > Important: The configuration shown in this Implementation Guide is for example and testing purposes only. It is not intended to be the optimal setup for the device. It is recommended that customers make sure SSH CryptoAuditor is properly configured and secured before deploying to a production environment. For more information, please refer to the CryptoAuditor documentation or website.

CryptoAuditor Configuration

CryptoAuditor supports HTTP and HTTPS session auditing transparently in router and bridge mode, and through bastion mode Hound's SOCKS proxy listener. HTTP/HTTPS auditing is meaningful for example for auditing admin sessions on web-based admin interfaces, or for auditing file or media transfers over HTTPS.

Setting IDS Server in Hound Configuration

IDS data forwarding is Hound specific, which means that the IDS server must be set for each Hound separately. Then the IDS checkbox must be enabled in the auditing actions of the connection rules that match to the connections of which payload should be passed to the IDS (in this case the SA Packet Decoder).

To set the IDS target server for a Hound, do the following:

1. In the admin UI, navigate to **Settings... Hounds**.
2. In the Hound's **Settings** section, under **IDS Server** section, set IDS settings:
 - **MAC address:** MAC address of the SA Packet Decoder network interface. Enter a MAC address prefix that is three octets or more.
 - **Interface:** The Hound's source interface that the Hound uses for sending the data to the SA Packet Decoder interface (**private** in this example):

IDS Server	
MAC address	00-0C-29-7B-39-D2
Interface	Private ▼

3. To make the changes to take effect in the system, click first **Save**, and then **Apply** the pending changes.

Now that the IDS interface has been configured, you can create a **Connection Rule** for capturing HTTPS traffic.

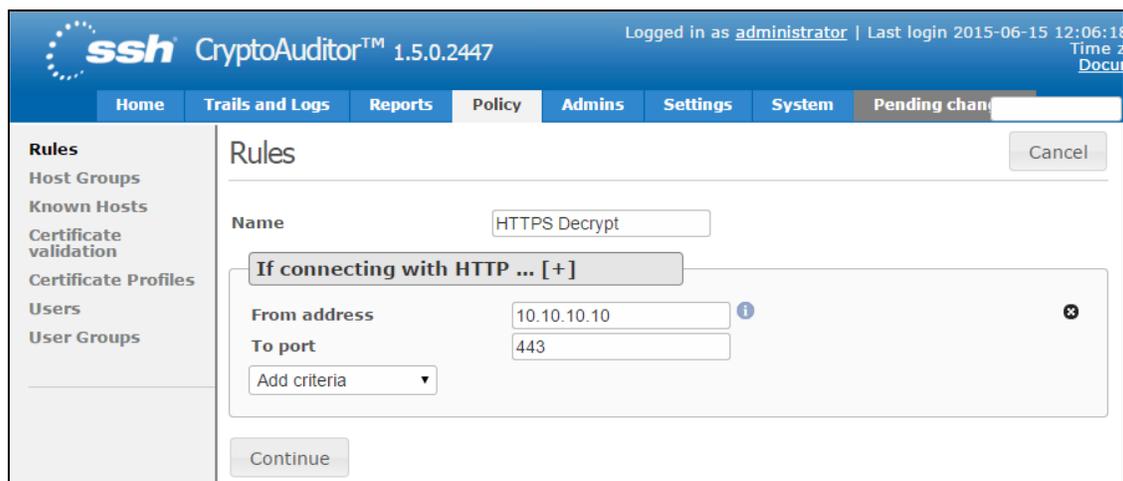
Creating a CryptoAuditor Connection Rule

Before you can audit HTTPS sessions, you must first create a new **Connection Rule**. To create a new Connection Rule for decrypting SSL sessions perform the following steps:

1. In the CryptoAuditor Admin UI, navigate to **Policy... Rules...+Add Rule**:



2. Give the rule a name and select **HTTP** in the **If connecting with...** dialog. Then choose the address or group of address you wish to audit, and enter 443 as the **To port**.



- Click **Continue** to see the **...using...** dialog. Under the TLS settings, you **must** choose **Require TLS** in order to audit HTTPS sessions.

... using ... [+]

Destination

Destination selection Original target address ▼

TLS settings

Tls mode Require TLS ▼

Tls validation mode Trust on first use ▼

Tls key update policy Manual update requests ▼

Tls key update grace period 0 ⓘ

Other settings

Failure model <not set, use Hound's failure model> ▼

Connection combination settings

Time window for combining with earlier requests 10 seconds

Combine only with requests to same destination

Name of session cookie set by HTTP server

Session cookie time window 600 seconds

Other parameters may be configured as outlined in the CryptoAuditor online help.

- Under the **... then [+]** heading, choose **Store full session** as the auditing action. Select the **IDS** checkbox to instruct CryptoAuditor to have CryptoAuditor direct the decrypted traffic to the IDS interface. This interface should be on the same network as your RSA Security Analytics Packet Decoder.

... then [+]

Auditing actions

Auditing Actions	Index	Content Inspection	IDS
	Real Time	Post-Process	
default	Store full session ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Save
Cancel

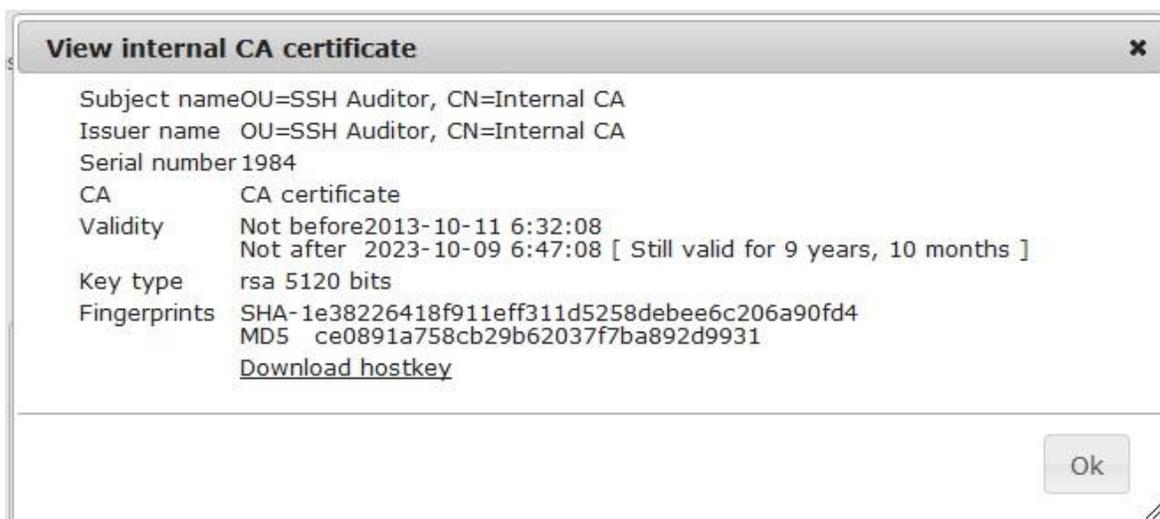
- Click **Save** to save the connection rule. Now that the rule has been created, you can configure the IDS interface for the CryptoAuditor Hound to ensure proper communication with the RSA Security Analytics Packet Decoder.

Now that the Connection Rule has been created, and the IDS interface has been configured, it is necessary to distribute the **Internal CA Certificate** to client systems.

Distributing the CryptoAuditor Internal CA Certificate

You can view and download the CryptoAuditor's internal CA certificate, but you cannot change or remove it. You may want to download the certificate in case that you need to install the certificate to client systems using HTTPS. In audited HTTPS connections, CryptoAuditor uses the internal CA certificate for generating temporary host certificates for the connection between the HTTPS client and the Hound. Because CryptoAuditor's internal CA is not a trusted authority in the HTTPS clients (for example a web browser), you will need to install it to the client hosts and applications as a trusted authority.

To view the certificate information, navigate to **Policy... Certificate Validation**, and click **Internal CA Certificate** at the end of the page.



To download the certificate, in the **View internal CA certificate** window, click **Download hostkey**.

RSA Security Analytics Configuration

There is no additional configuration required in RSA Security Analytics other than to have to appropriate parsers installed in order to analyze the type of SSL traffic you are decrypting.

Once the Security Analytics Packet Decoder has captured traffic and sent it to the Concentrator, you should see the related metadata when performing an investigation -- for example, a decrypted Google Search using the **Search_Engines** parser:

The screenshot displays the RSA Security Analytics interface. At the top, there are navigation tabs: Investigation, Navigate, Events, and Malware Analysis. The current view is for 'vm3092 - Concentrator' with 'All Data' selected. The search criteria is 'sourcefile = 'google_search.pcap''. The time range is set to 2015-06-15 from 18:21 to 19:25 (+00:00). The results are sorted by Total in Ascending order. A 'Visualization' button is visible in the top right of the results area.

sourcefile = 'google_search.pcap'

2015 06 15 18:21 (+00:00) All Data 2015 06 15 19:25 (+00:00) Visualization

- Source Filename** (1 value) 🔍
google_search.pcap (960)
- Search Engine Queries** (1 value) 🔍
this is a search using the google search engine (235)
- Remote Session ID** (16 values) 🔍
472 (1) - 483 (1) - 470 (2) - 474 (2) - 478 (2) - 479 (2) - 480 (2) - 469 (9) - 473 (10) - 482 (10) - 475 (12) - 481 (110) - 476 (111) - 477 (126) - 468 (235) - 471 (325)
- Decoder Source** (1 value) 🔍
vm3091 (960)

Certification Checklist for RSA Security Analytics

Date Tested: June 15th, 2015

Certification Environment		
Product Name	Version Information	Operating System
RSA Security Analytics	10.4.1	Virtual Appliance
SSH CryptoAuditor	1.5.0.2447	Virtual Appliance

Security Analytics Test Case	Result
Outbound SSL Decryption	
HTTPS	
Google Search	<input checked="" type="checkbox"/>
Bing Search	<input checked="" type="checkbox"/>
Facebook	<input checked="" type="checkbox"/>
YouTube	<input checked="" type="checkbox"/>
Twitter	<input checked="" type="checkbox"/>
LinkedIn	<input checked="" type="checkbox"/>
Reddit	<input checked="" type="checkbox"/>
WEBMAIL	
GMail	<input checked="" type="checkbox"/>
Yahoo	<input checked="" type="checkbox"/>
Live	<input checked="" type="checkbox"/>
AOL	<input checked="" type="checkbox"/>
Inbound SSL Decryption	
HTTPS	
Web Server	<input type="checkbox"/> N/A

JEC

✓ = Pass ✗ = Fail N/A = Non-Available Function