Integrate Cisco SecureX with Cisco Umbrella

Contents

Introduction

This document describes the process to configure and verify the Umbrella integration with SecureX with the 3 available APIs.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Umbrella
- Cisco Secure X
- Cisco Threat Response

Components Used

The information in this document is based on these software and hardware versions:

- Umbrella account with DNS Advantage License

- Secure X

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Background Information

In order to fully configure this integration with all of its functionalities, you need access to these 3 APIs

- Reporting API (included in all licenses)
- Enforcement API
- Investigate API

In order to configure the Umbrella integration, you must first gather some information from your Umbrella instances and then complete the **Add New Umbrella Module** form.

Configure

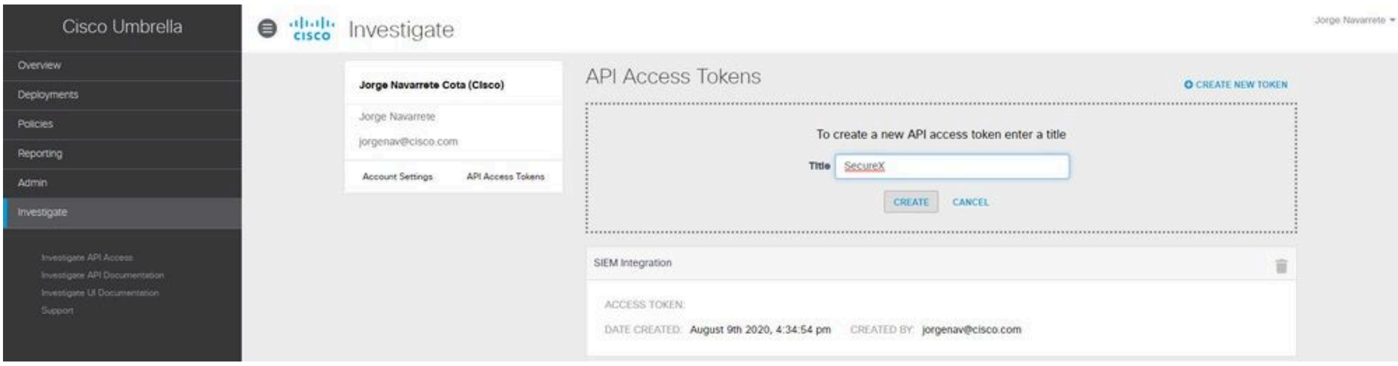
Create Module

1. Log in to your Secure X account. If you do not have an account yet, you can create one with Cisco Secure Sign-On.
2. Navigate to **Integrations > Add New Module**. In the Available Integrations page scroll down to the Umbrella option and click **Add New Module.**

Use these steps to collect the necessary information from your Umbrella Account to submit in the **Add New Umbrella Module** form.

Investigate API

1. In Umbrella, navigate to **Investigate > Investigate API Access**, click **Create New Token** and enter a title for the token, and then click **Create New Token** again.
2. Copy the Access Token value into the API Token field on the Add New Umbrella Module form.



Jorge Navarrete Cota (Cisco)
Jorge Navarrete
jorgenav@cisco.com

API Access Tokens

To create a new API access token enter a title

Title SecureX

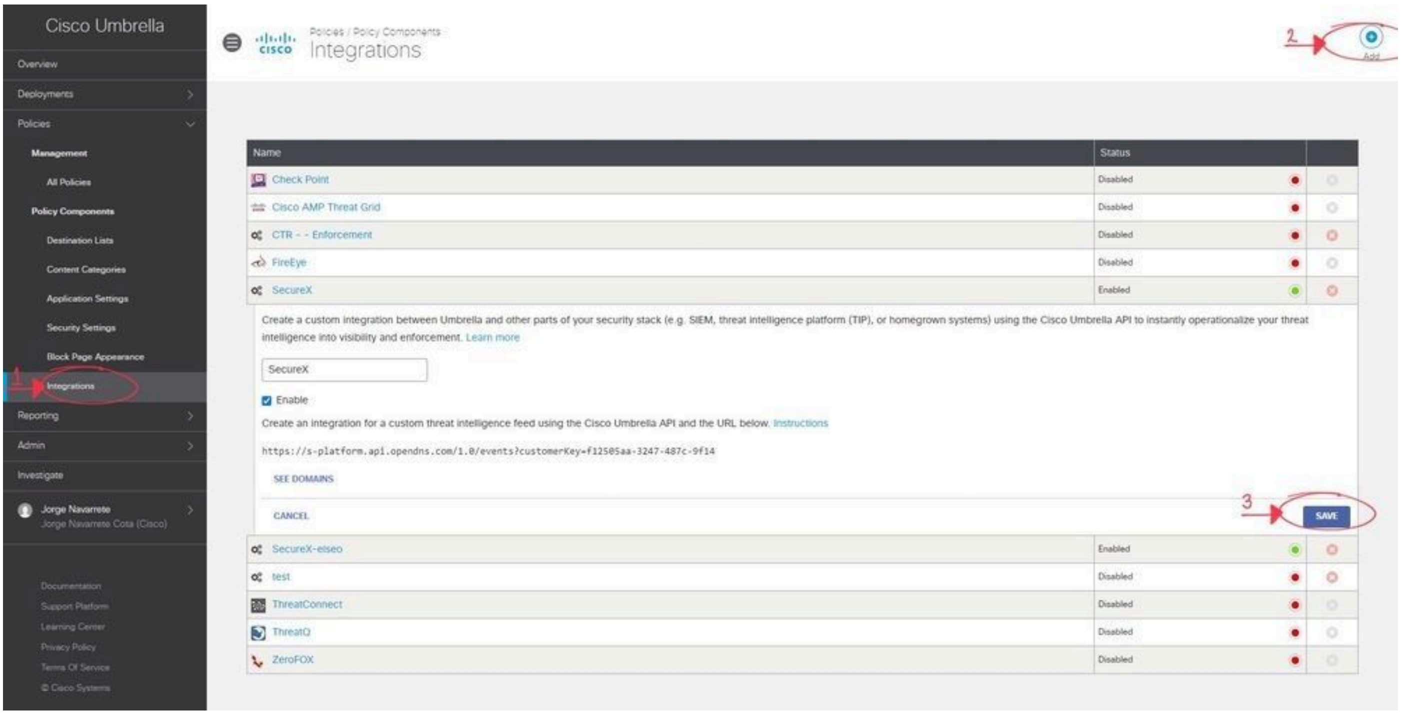
SIEM Integration

ACCESS TOKEN:
DATE CREATED: August 9th 2020, 4:34:54 pm CREATED BY: jorgenav@cisco.com

Enforcement API

1. In Umbrella, navigate to **Policies > Policy Components > Integrations**, click **Add** and enter a name, and click **Create**.
2. Click the newly created **integration name** link, check the**Enable**checkbox, and**Save**.
3. Click the **integration name** to display the integration URL. Copy the integration URL into the

Custom Umbrella Integration URL field on the **Add New Umbrella Module** form.



Name	Status
Check Point	Disabled
Cisco AMP Threat Grid	Disabled
CTR - - Enforcement	Disabled
FireEye	Disabled
SecureX	Enabled
SecureX-elseo	Enabled
test	Disabled
ThreatConnect	Disabled
ThreatQ	Disabled
ZeroFOX	Disabled

Create a custom integration between Umbrella and other parts of your security stack (e.g. SIEM, threat intelligence platform (TIP), or homegrown systems) using the Cisco Umbrella API to instantly operationalize your threat intelligence into visibility and enforcement. Learn more

SecureX

☑ Enable

Create an integration for a custom threat intelligence feed using the Cisco Umbrella API and the URL below. Instructions

```
https://s-platform.api.opendns.com/1.0/events?customerKey=f12505aa-3247-487c-9f14
```

Note: In order to integrate the Umbrella Enforcement API, you must be an admin in an Umbrella standalone org or child org instead of an admin of an Umbrella console.

Reporting API

1. In Umbrella, navigate to **Admin > API Keys** and click **Create**.

2. Under **What should this API do?**, click the **Umbrella Reporting** radio button and then click **Create**.

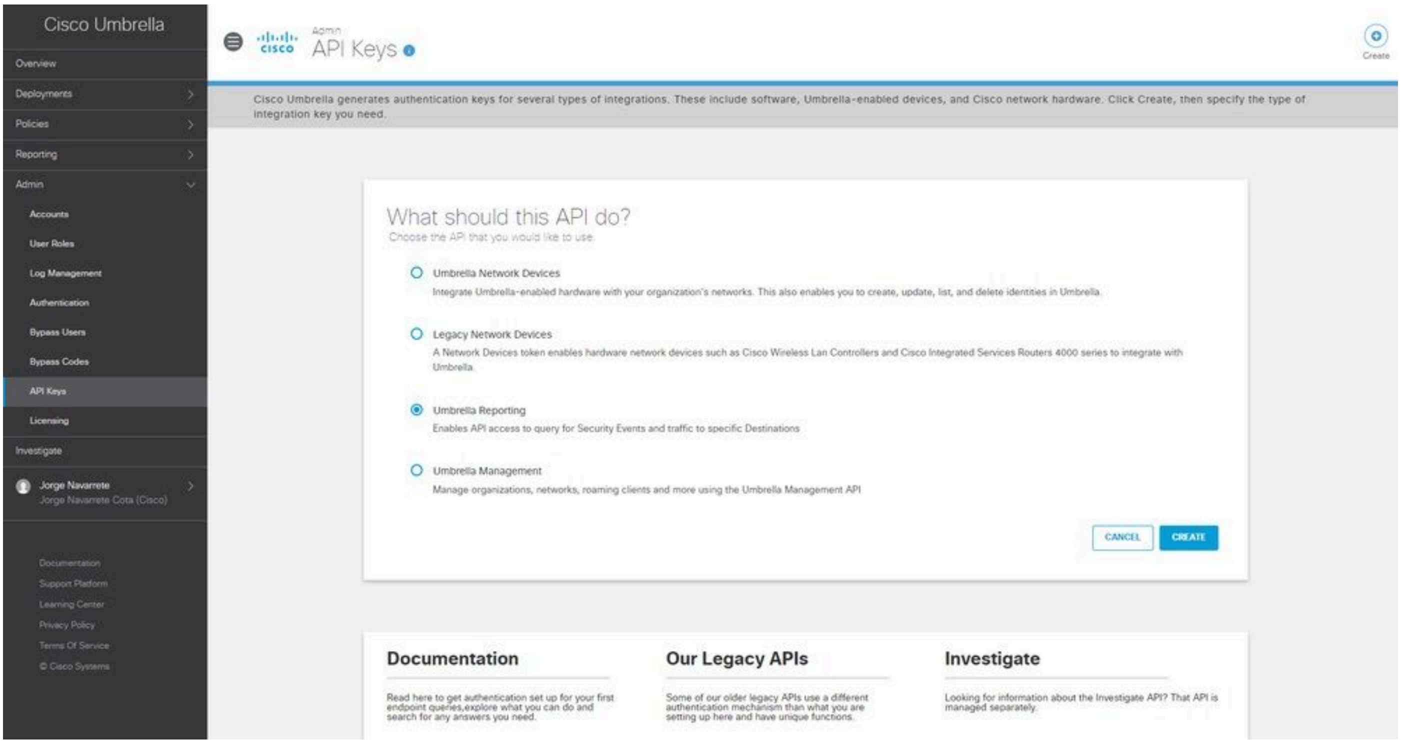
3. Copy the next values into the **Reporting** fields on the **Add New Umbrella Module** form:

    - **API Key** (Your Key)

    - **API Secret** (Your Secret)

    - **Organization ID** - from browser URL, the set of numbers between`/o/`and`/#/`

    - **Request Timeframe** (days)- Enter the timeframe (in days) for enriching sightings from the most recent DNS requests



Cisco Umbrella generates authentication keys for several types of integrations. These include software, Umbrella-enabled devices, and Cisco network hardware. Click Create, then specify the type of integration key you need.

What should this API do?

Choose the API that you would like to use.

○ Umbrella Network Devices
Integrate Umbrella-enabled hardware with your organization's networks. This also enables you to create, update, list, and delete identities in Umbrella.

○ Legacy Network Devices
A Network Devices token enables hardware network devices such as Cisco Wireless Lan Controllers and Cisco Integrated Services Routers 4000 series to integrate with Umbrella.

● Umbrella Reporting
Enables API access to query for Security Events and traffic to specific Destinations

○ Umbrella Management
Manage organizations, networks, roaming clients and more using the Umbrella Management API

CANCEL CREATE

Documentation

Read here to get authentication set up for your first endpoint queries,explore what you can do and search for any answers you need.

Our Legacy APIs

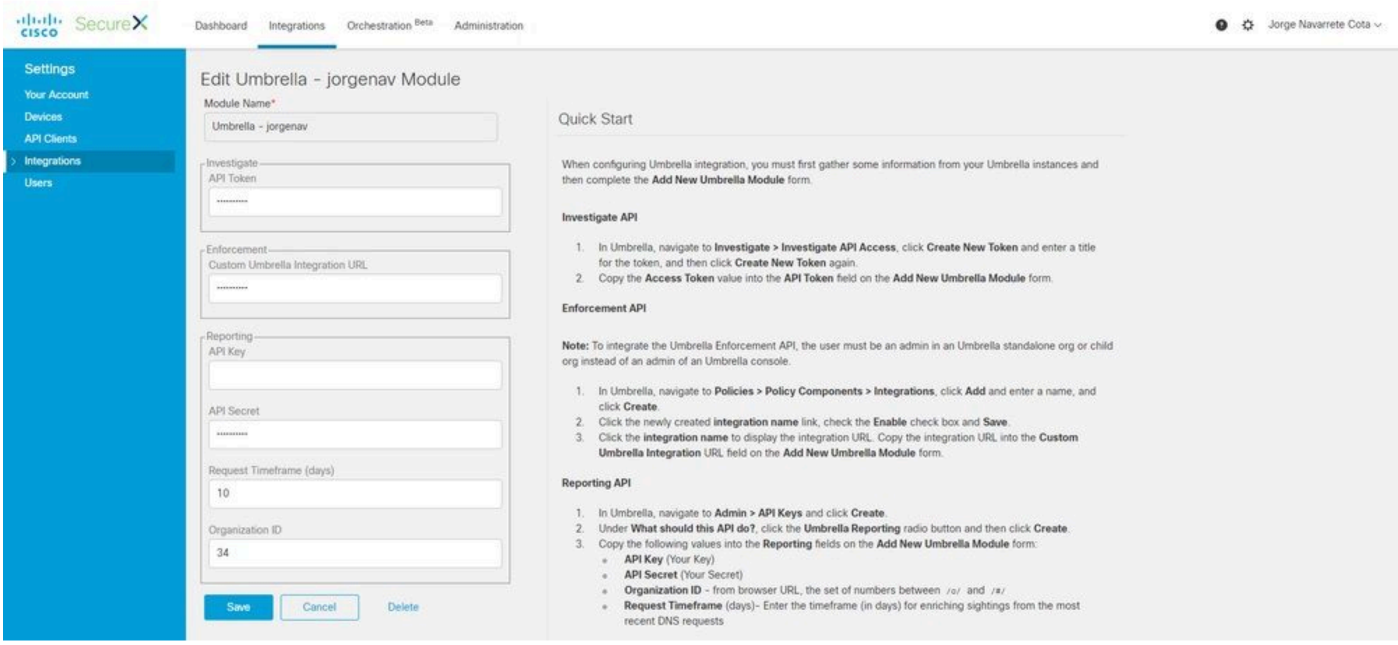
Some of our older legacy APIs use a different authentication mechanism than what you are setting up here and have unique functions.

Investigate

Looking for information about the Investigate API? That API is managed separately.

Save Module

1. Fill out the API information in your Umbrella Module, click **Save**.



Edit Umbrella - jorgenav Module

Module Name*: Umbrella - jorgenav

Investigate
API Token: ••••••••••

Enforcement
Custom Umbrella Integration URL: ••••••••••

Reporting
API Key:

API Secret: ••••••••••

Request Timeframe (days): 10

Organization ID: 34

Quick Start

When configuring Umbrella integration, you must first gather some information from your Umbrella instances and then complete the **Add New Umbrella Module** form.

Investigate API

1. In Umbrella, navigate to **Investigate > Investigate API Access**, click **Create New Token** and enter a title for the token, and then click **Create New Token** again.
2. Copy the **Access Token** value into the **API Token** field on the **Add New Umbrella Module** form.

Enforcement API

Note: To integrate the Umbrella Enforcement API, the user must be an admin in an Umbrella standalone org or child org instead of an admin of an Umbrella console.

1. In Umbrella, navigate to **Policies > Policy Components > Integrations**, click **Add** and enter a name, and click **Create**.
2. Click the newly created **integration name** link, check the **Enable** check box and **Save**.
3. Click the **integration name** to display the integration URL. Copy the integration URL into the **Custom Umbrella Integration** URL field on the **Add New Umbrella Module** form.

Reporting API

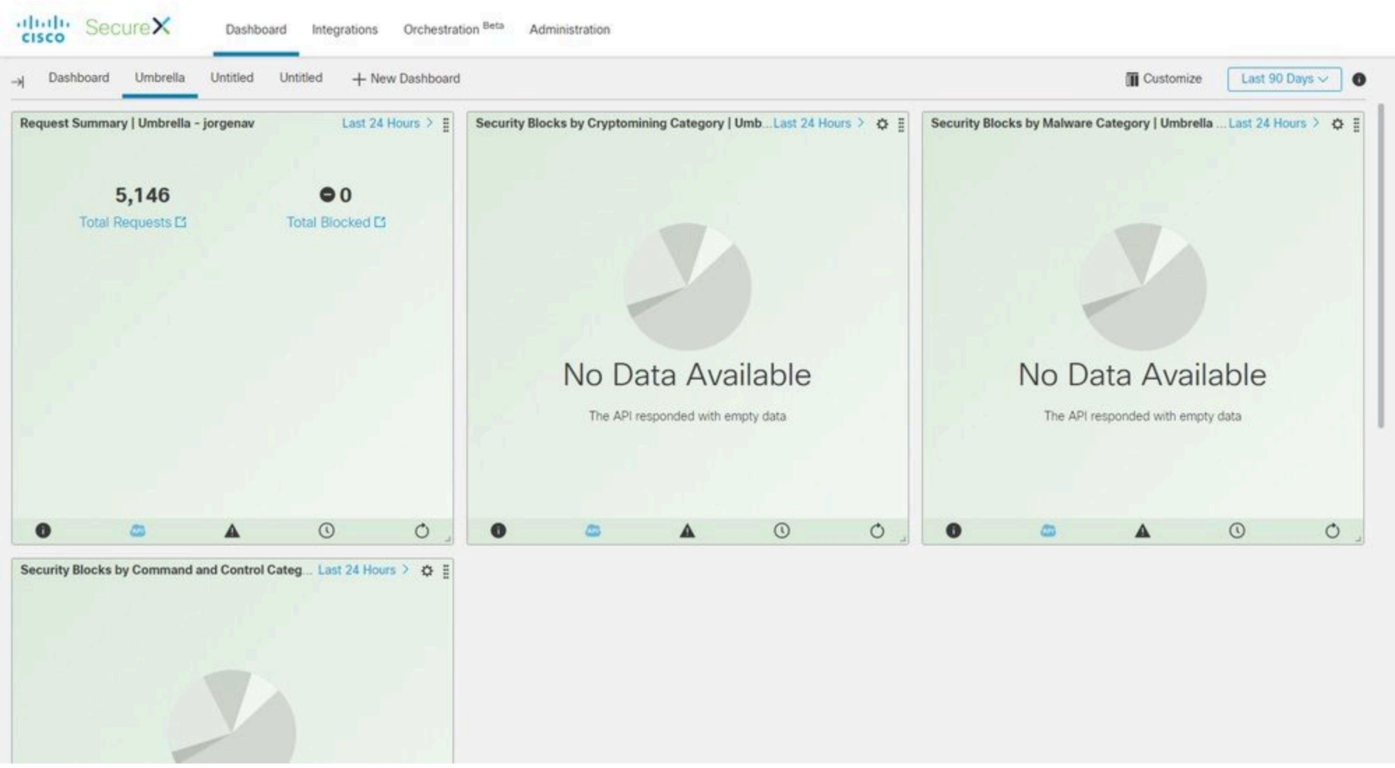
1. In Umbrella, navigate to **Admin > API Keys** and click **Create**.
2. Under **What should this API do?**, click the **Umbrella Reporting** radio button and then click **Create**.
3. Copy the following values into the **Reporting** fields on the **Add New Umbrella Module** form:
   - **API Key** (Your Key)
   - **API Secret** (Your Secret)
   - **Organization ID** - from browser URL, the set of numbers between `/o/` and `/#/`
   - **Request Timeframe** (days)- Enter the timeframe (in days) for enriching sightings from the most recent DNS requests

Create SecureX Dashboard

1. Once you added your module, you can navigate to Secure X and create a **New Dashboard.**

2. Under the available Dashboards, select your Umbrella module and add the Categories you are interested in seeing.

3. Click **Save**, and see your information populated via the API.


SecureX
Dashboard
Integrations
Orchestration Beta
Administration
Dashboard
Umbrella
Untitled
Untitled
+ New Dashboard
Customize
Last 90 Days
Request Summary | Umbrella - jorgenav
Last 24 Hours
5,146
Total Requests
0
Total Blocked
Security Blocks by Cryptomining Category | Umb...
Last 24 Hours
No Data Available
The API responded with empty data
Security Blocks by Malware Category | Umbrella ...
Last 24 Hours
No Data Available
The API responded with empty data
Security Blocks by Command and Control Categ...
Last 24 Hours

Verify

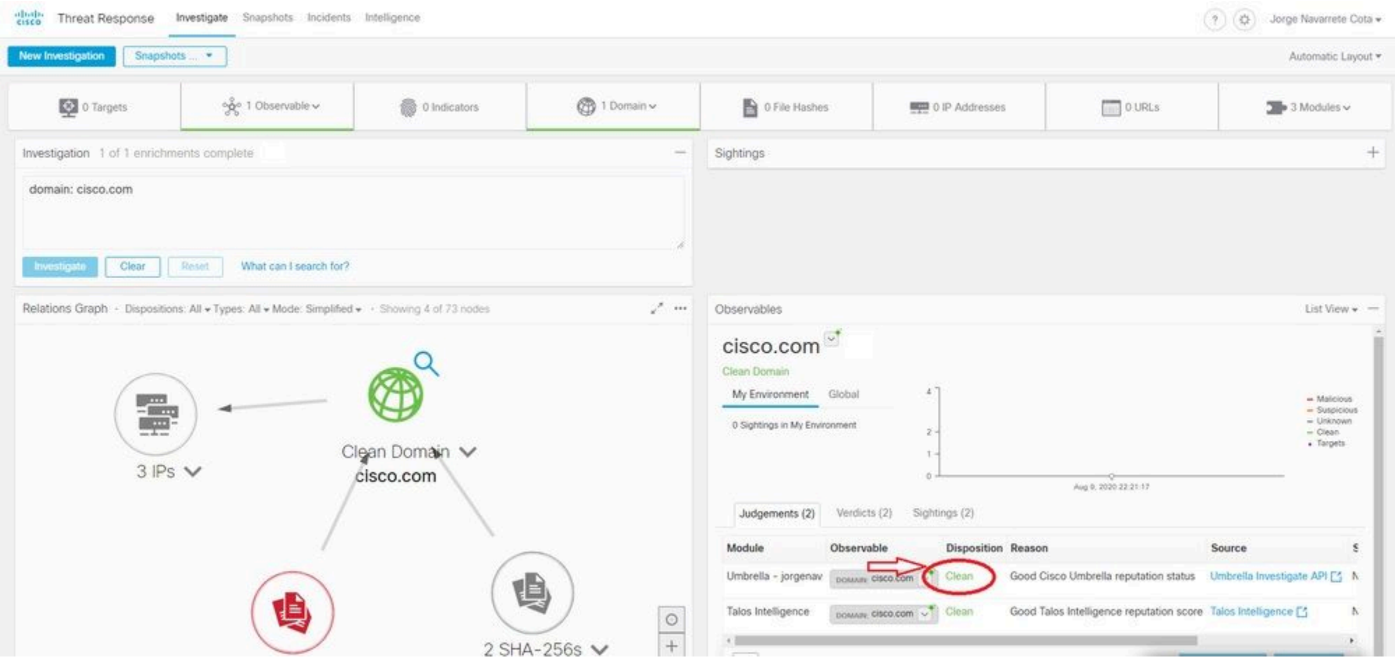
Use this section in order to confirm that your configuration works properly.

Investigate

The Investigate API, allows you to add a feed to a CTR investigation, to see the disposition of a domain and enrich the investigation with other modules.

1. In order to verify this integration, make a new investigation in Cisco Threat Response. A Disposition provided by Umbrella can be found with a search for a known domain, such as cisco.com.

2. If you click under the domain in the Relations Graph, you also can pivot from there to the Investigate Dashboard in Umbrella.



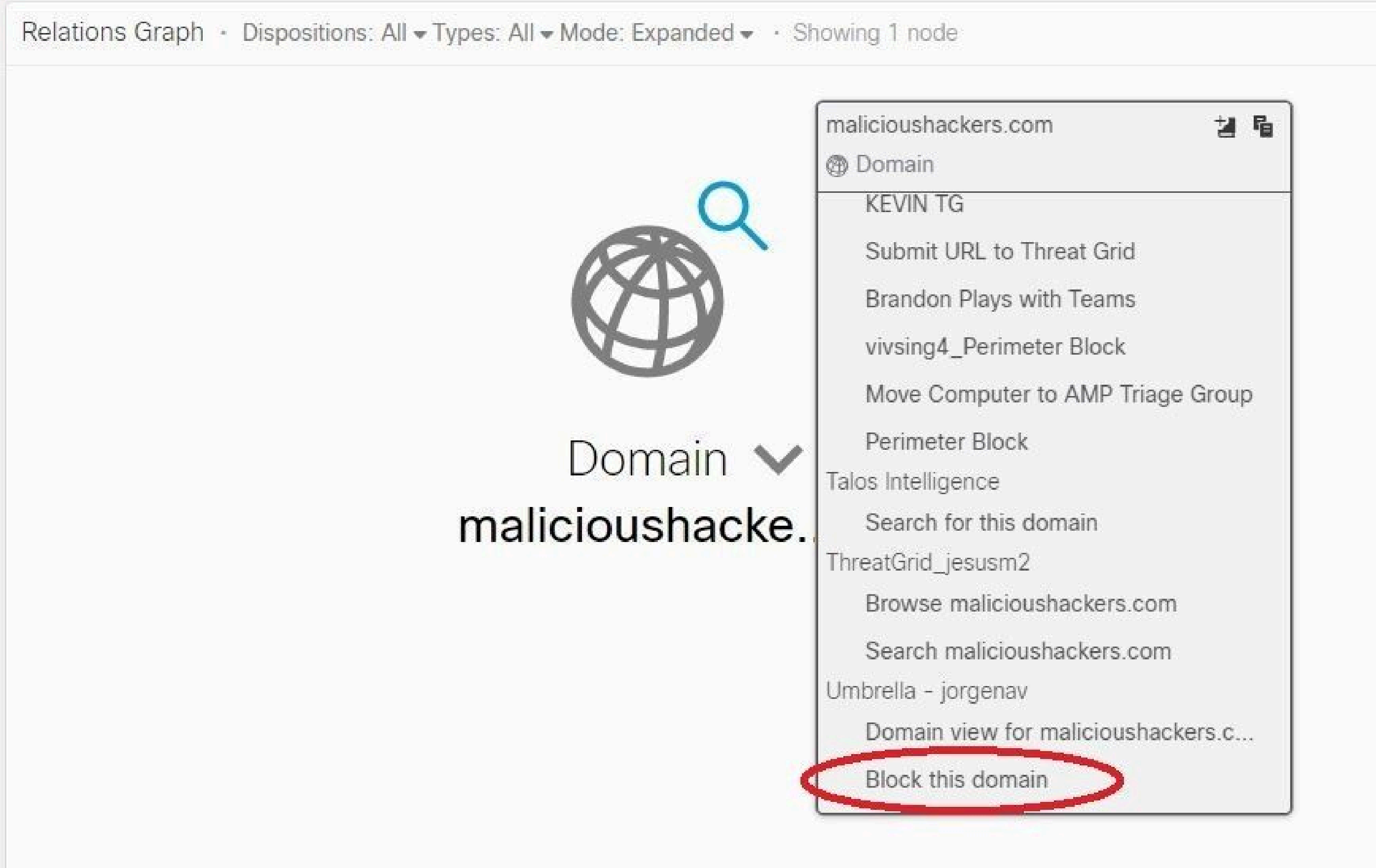
Module	Observable	Disposition	Reason	Source
Umbrella - jorgenav	DOMAIN cisco.com	Clean	Good Cisco Umbrella reputation status	Umbrella Investigate API
Talos Intelligence	DOMAIN cisco.com	Clean	Good Talos Intelligence reputation score	Talos Intelligence

Enforcement

With the Enforcement API, you can block or unblock a domain directly from an investigation.

1. In order to verify that the API works, you can block a domain seen in an investigation and that adds the domain to the policy block list in Umbrella.

2. In order to verify that the URL has been added to the block list, navigate to **Policies > Policy Components > Integrations.** Select your SecureX integration, and click **See Domains.** A window displays the added domains from CTR.


Relations Graph · Dispositions: All · Types: All · Mode: Expanded · Showing 1 node
Domain
maliciousshacke...
maliciousshackers.com
Domain
KEVIN TG
Submit URL to Threat Grid
Brandon Plays with Teams
vivsing4_Perimeter Block
Move Computer to AMP Triage Group
Perimeter Block
Talos Intelligence
Search for this domain
ThreatGrid_jesusm2
Browse maliciousshackers.com
Search maliciousshackers.com
Umbrella - jorgenav
Domain view for maliciousshackers.c...
Block this domain

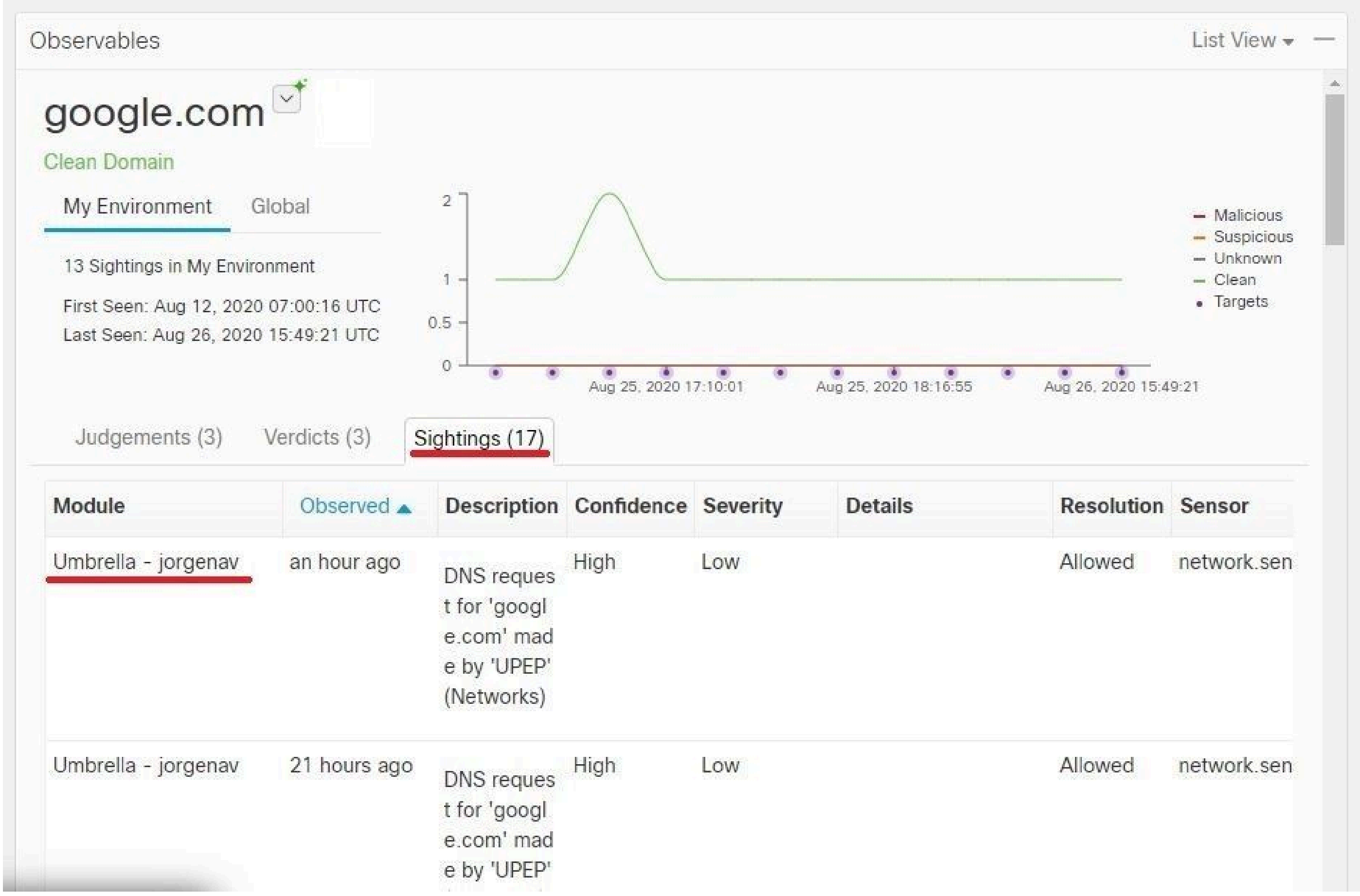
3. If the domains are not blocked, on your Umbrella dashboard navigate to **Policies > Policy Components > Security Settings.** Under **Integrations** make sure that you have applied your desired list.

Reporting

The Reporting API allows you to see the information of your Umbrella deployments within SecureX.

You can verify the integration with an investigation of a domain you know has been seen in your environment in CTR.

In the CTR Investigation, the list of computers that have accessed a particular domain is displayed under **Sightings.**



google.com

Clean Domain

13 Sightings in My Environment

First Seen: Aug 12, 2020 07:00:16 UTC
Last Seen: Aug 26, 2020 15:49:21 UTC

Module	Observed ▲	Description	Confidence	Severity	Details	Resolution	Sensor
Umbrella - jorgenav	an hour ago	DNS request for 'google.com' made by 'UPEP' (Networks)	High	Low		Allowed	network.sen
Umbrella - jorgenav	21 hours ago	DNS request for 'google.com' made by 'UPEP'	High	Low		Allowed	network.sen

Video

You can find the configuration information contained in this article in this video.

Related Information

- [Technical Support & Documentation - Cisco Systems]