



The bridge to possible

Development opportunities with SecureX

How to build onto the industry's broadest security platform

Ben Greenbaum, Sr. Product Manager, SecureX
@secintsight

Cisco Webex App



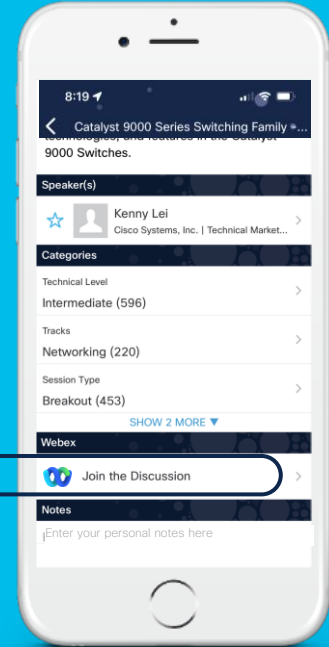
Questions?

Use Cisco Webex App to chat with the speaker after the session

How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated until February 24, 2023.





Agenda

- Introduction
 - What is SecureX?
 - SecureX Feature Highlights
- The SecureX Development Opportunity
 - The API model
 - SecureX threat response
 - SecureX orchestration
- Conclusion & Resources

Objectives

Overview

- Understand SecureX purpose and application
- Understand integration use cases (why integrate?)

Threat Response

- Understand Modules and Relays

Orchestration

- Understand Workflows and Targets

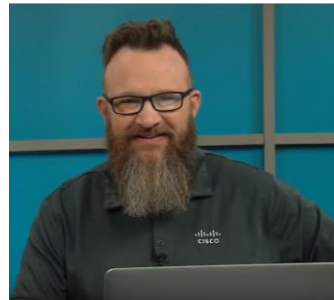
Ben Greenbaum

Professional life

- 25 years experience
- Engineering roles at
 - SecurityFocus
 - Symantec
 - SOC/Engineering roles at Financial Services
 - PayPal
 - Hedge Fund
- 5 years at Cisco

Personal life

- Interests
 - Travel
 - Poorly advised motorsports
- Life
 - Rural Arizona
 - With:
 - Wife
 - 4 cats
 - Many broken cars



Introduction to SecureX



What is SecureX?

What is SecureX?

SecureX is a cloud-based security platform that provides a unified view of the entire security stack, including network, endpoint, and cloud services. It enables organizations to detect and respond to threats across all their assets, regardless of where they are located. SecureX also provides a central point of management for all security tools, making it easier to configure and maintain. Additionally, SecureX offers a range of services, including threat intelligence, incident response, and compliance, to help organizations protect their data and systems. SecureX is available as a managed service or as a self-managed solution, and it can be integrated with a wide range of third-party security products.





The real power of SecureX is the combined power of all the connected technologies, multiplied by the efficiency gains from automation...

SecureX Features

SecureX capabilities and benefits

- **Threat response** for fast investigation and remediation
- **Orchestration** to reduce manual workflows
- **Secure sign-on** for seamless user experience
- **Customizable dashboard** to track detailed and important metrics
- **Ribbon** feature to share context between all teams and work across tools



SecureX threat response

Threat Response

Investigate

Snapshots

Incidents

Intelligence

Modules

Ben Greenbaum - US Admin

New Investigation

Assign to Incident

Snapshots

14 Targets

17 Observables

83 Indicators

5 Domains

7 File Hashes

5 IP Addresses

0 URLs

9 Modules

Investigation 17 of 17 enrichments complete

domain:"hr-wipro.com"

ip:"209.141.38.71"

sha256:"2fa19292f353b4078a9bf39f8837d991e383c99e147727eaa6a03ce0259b3c5"

sha256:"5b102bf4d997688268bab45336cead7cdf188eb0d6355764e53b4f62e1cdf30c"

domain:"Office36o.com"

Investigate

Clear

Reset

What can I search for?

Relations Graph

Dispositions: All

Types: All

Mode: Simplified

Showing 38 of 55 nodes

Sightings

My Environment

Global

73 Sightings in My Environment

First Seen: Jan 16, 2020 19:35:00 UTC

Last Seen: Jun 10, 2020 11:19:00 UTC

Observables

Office36o.com

Malicious Domain

My Environment

Global

5 Sightings in My Environment

First Seen: May 12, 2020 15:01:52 UTC

Last Seen: Jun 10, 2020 11:13:25 UTC

Judgements (2)

Verdicts (2)

Sightings (5)

Module	Observable	Disposition	Reason
Umbrella	DOMAIN: Office36o.com	Malicious	Poor Cisco Umbrella reputation status
Talos Intelligence	DOMAIN: Office36o.com	Suspicious	Low Talos Intelligence reputation score

25 per page 1-2 of 2

Previous Next

SecureX orchestration

The screenshot displays the Cisco SecureX Orchestration dashboard. The top navigation bar includes 'Dashboard', 'Integrations', 'Orchestration' (selected), and 'Administration'. The left sidebar contains various icons for navigation. The main content area is titled 'My Workflows' and features a filter bar with 'TOTAL (55)', 'INVALID (2)', 'VALIDATED (35)', and 'FAVORITE (0)'. Below this is a search bar and a grid of workflow cards. Each card displays a category (e.g., INTELLIGENCE, SECUREX), a workflow name, and its status/last update time.

Category	Workflow Name	Status / Last Update
INTELLIGENCE	Get me IP details from Shodan	Validated • 06/10/20 02:31 pm
	Submit URL to Threat Grid for Analysis	Updated • 06/10/20 10:58 am
	Take Machine State Snapshot	Updated • 06/10/20 07:54 am
SECUREX	Request Tier2 Approval for Host Isolation	Updated • 06/10/20 07:54 am
	Contact Talos Incident Response	Updated • 06/10/20 07:54 am
	Get Photo Albums for User	Invalid • 06/09/20 02:22 pm
	Get Photo Albums for User	Validated • 06/09/20 11:33 am
	Move Computer to Triage Group	Updated • 06/09/20 08:49 am
INTELLIGENCE	Shodan Reverse-DNS	Updated • 06/09/20 08:47 am
	Meraki VMX Scale	Updated • 06/09/20 08:16 am
	erkostia_hello_world	Invalid • 06/08/20 02:18 pm
SECUREX-DEMO	Secure Remote Worker: VPN Capacity (No Duo)	Validated • 06/08/20 01:19 pm
	Test TG	
	TG Experiments	
	Test Phishing	
	Hacker Target Reverse DNS	

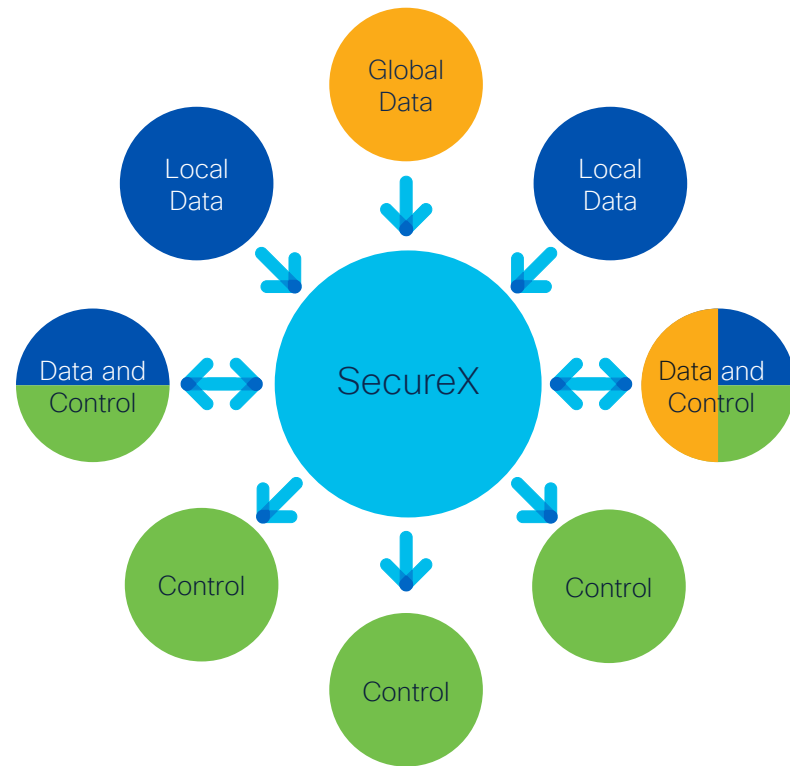
The SecureX Development Opportunity Advantage



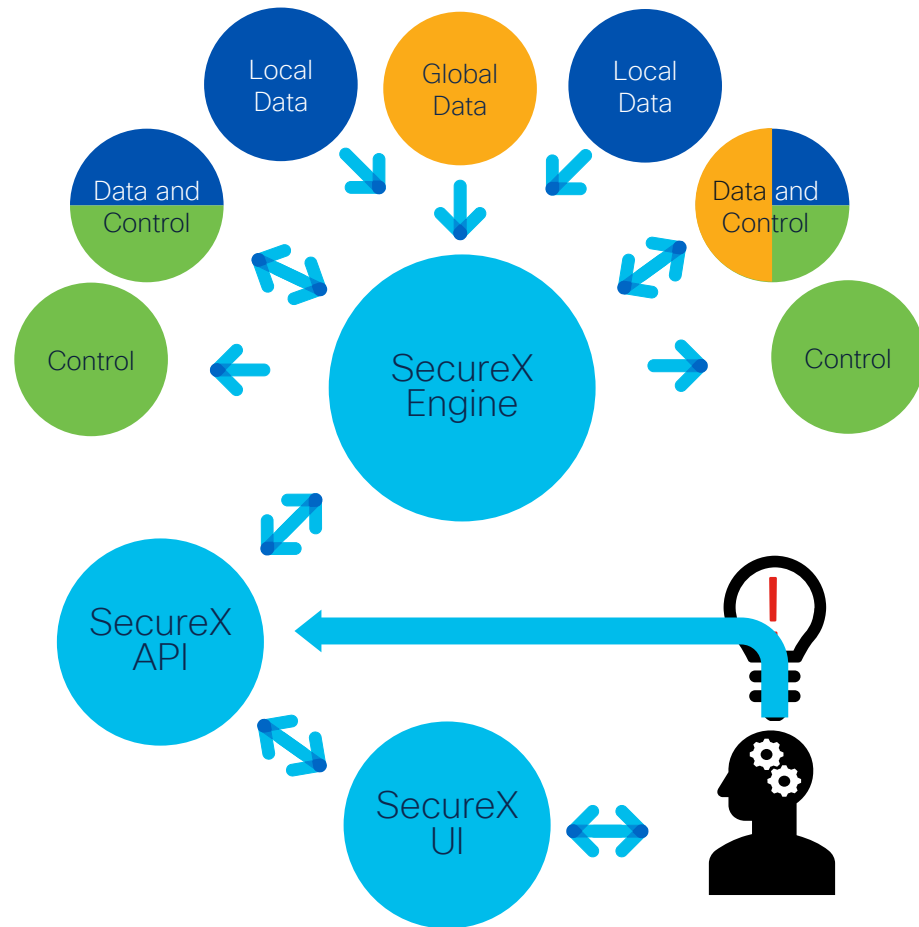
The SecureX API Model



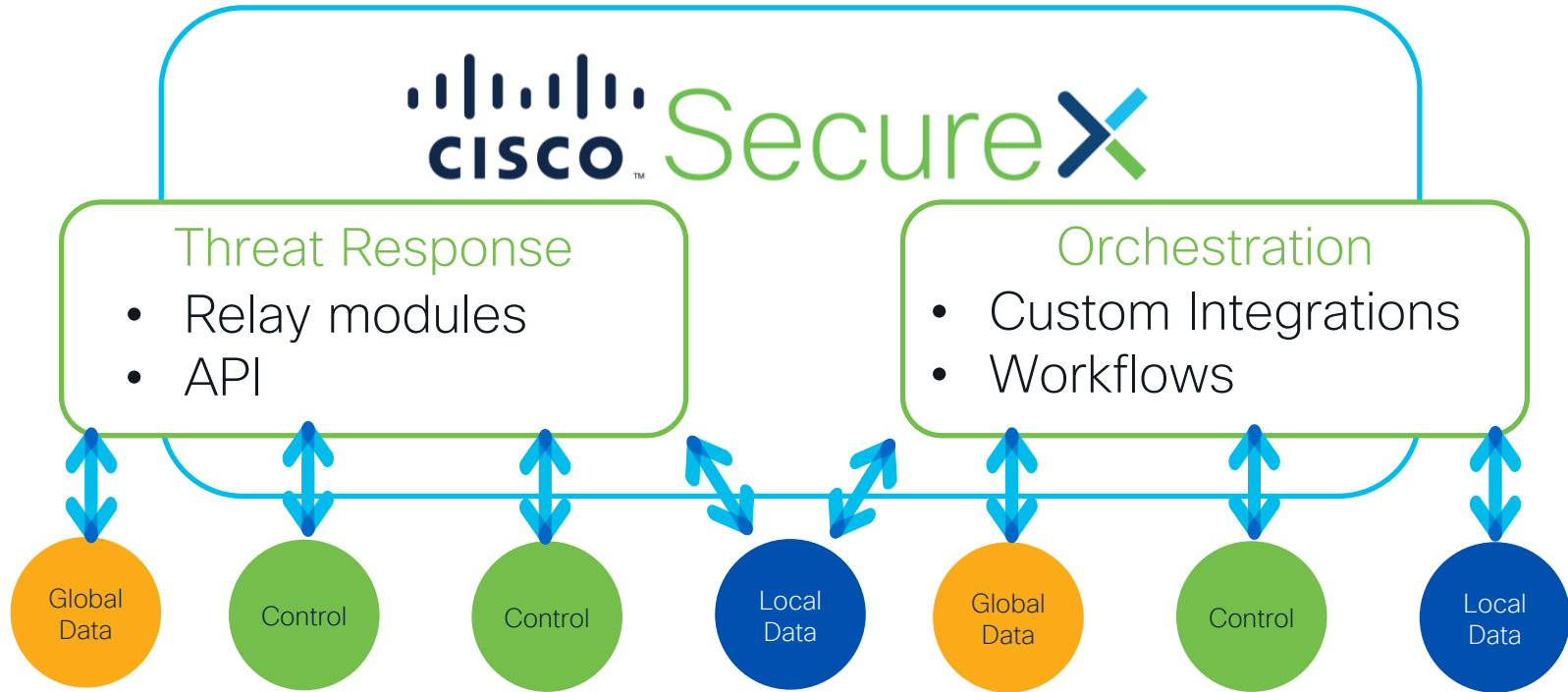
API aggregation at work

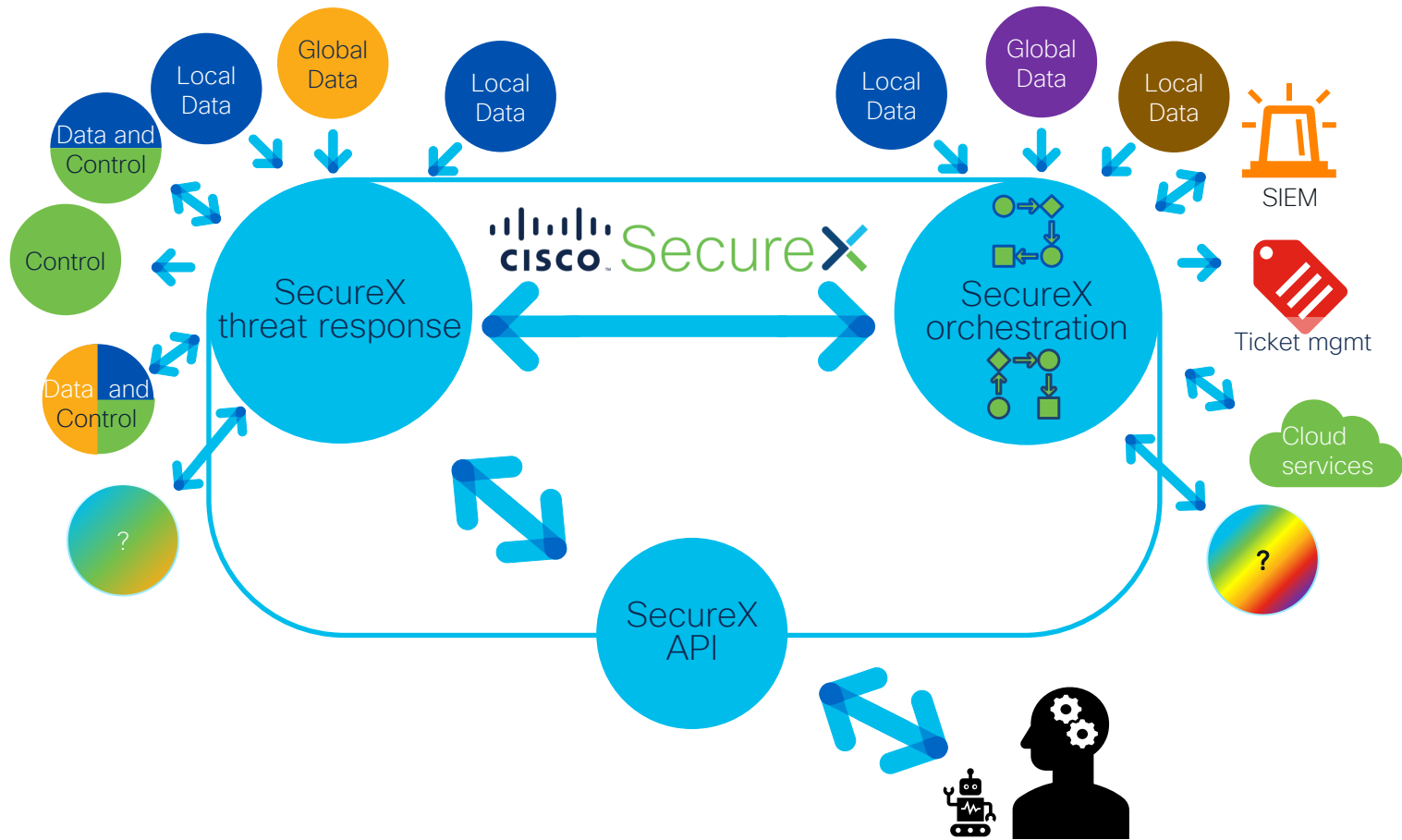


API proxying at work



Hooks and Integration Points





SecureX threat response



SecureX threat response Integration Use Cases

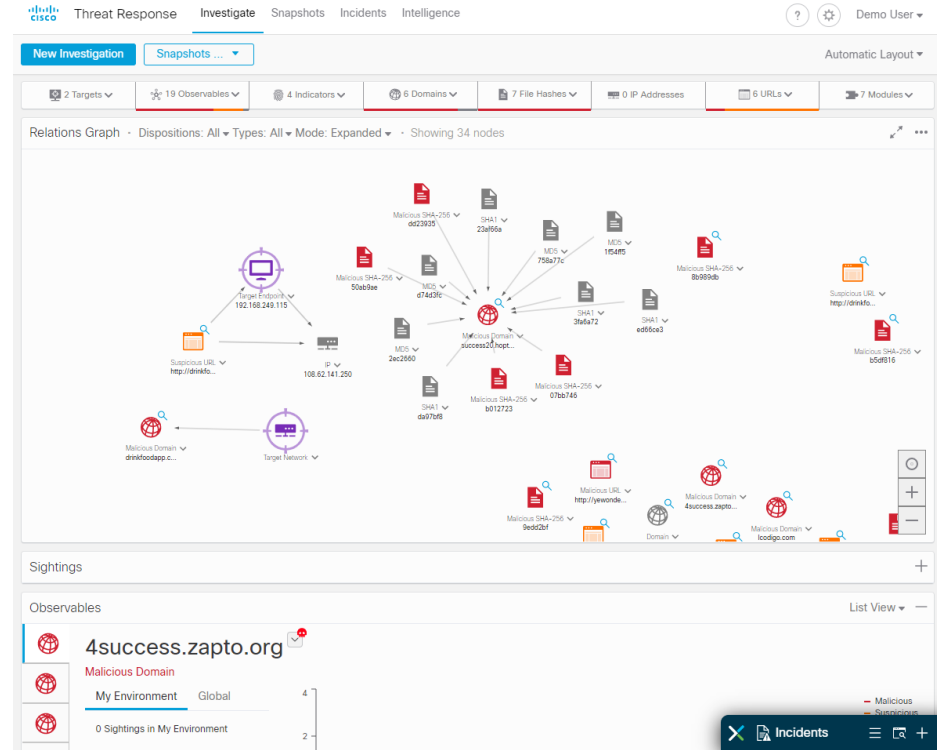
- 3rd Party Program Using SecureX:
 - Extract observables from text
 - Quick reputation lookups
 - Threat Hunting
 - Create Incidents for Incident Manager
 - Take response actions

SecureX threat response Integration Use Cases

- SecureX using the 3rd Party Program:
 - Add arbitrary data/response sources!
 - Enrichment data
 - Take response actions

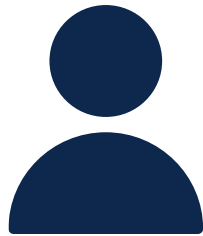
SecureX threat response

- Products host their own APIs
- SecureX threat response makes requests
 - “Do you know anything about this observable?”
 - “Have you seen this observable?”
 - “What can you do about it?”
 - “Do that to/with this observable”



Enrichment

The process of consulting all the technologies to find out what any of them know, or can do, about the observable(s).



SecOps



EPP



NGIPS



DNS
security



Etc.



EPP logs



NGIPS
logs



DNS
logs



Etc.



File
Analysis



Domain
reputation



IP
reputation

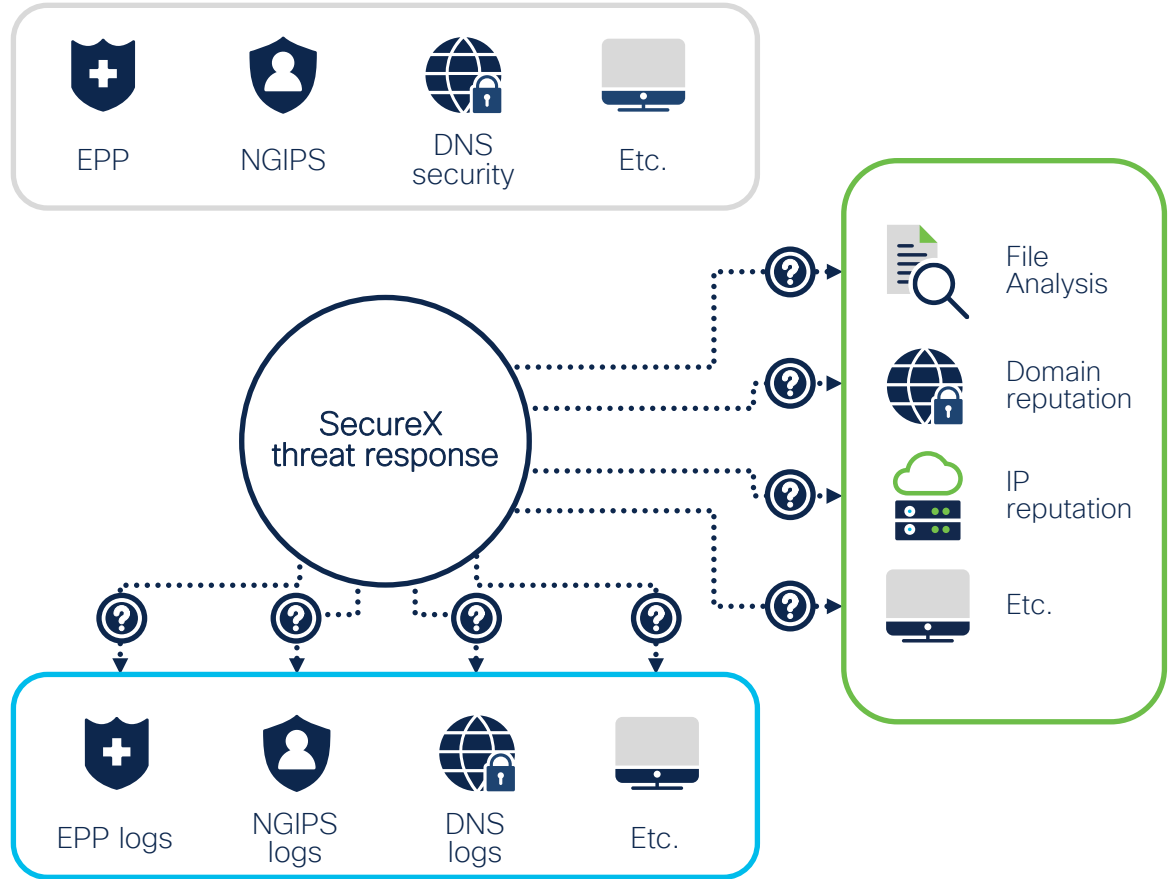


Etc.

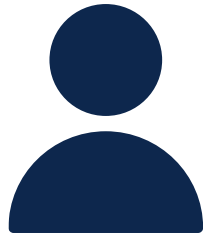
Enrichment



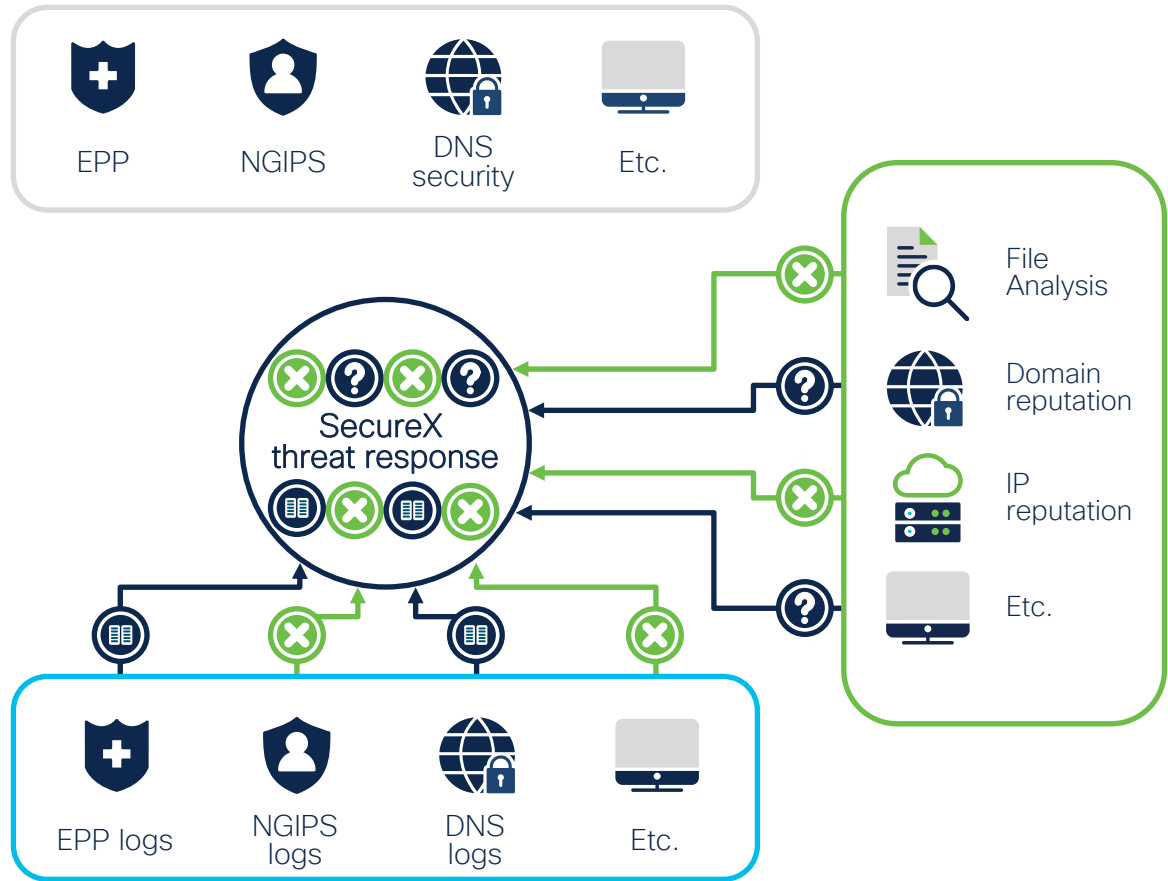
SecOps



Enrichment

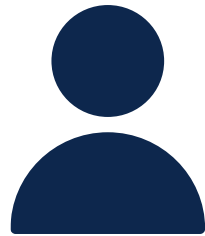


SecOps



Response

The process of leveraging the capabilities of SecureX-enabled technologies to mitigate threats by acting on observables or targets



SecOps



EPP



NGIPS



DNS
security



Etc.



EPP logs



NGIPS
logs



DNS
logs



Etc.



File
Analysis



Domain
reputation



IP
reputation

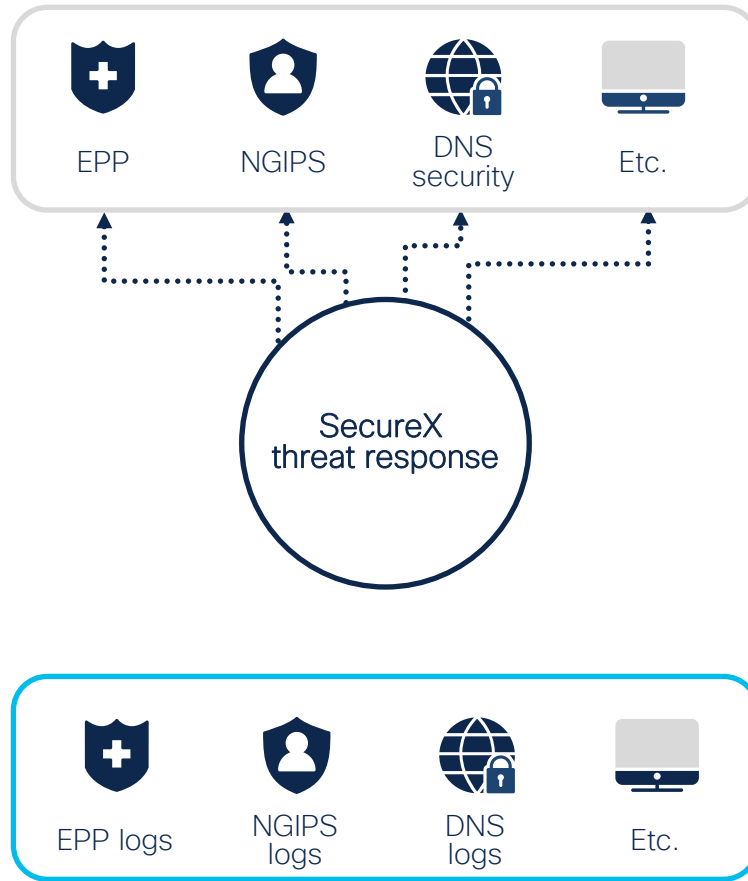


Etc.

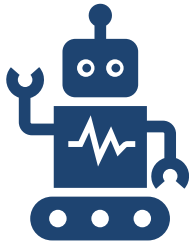
Response

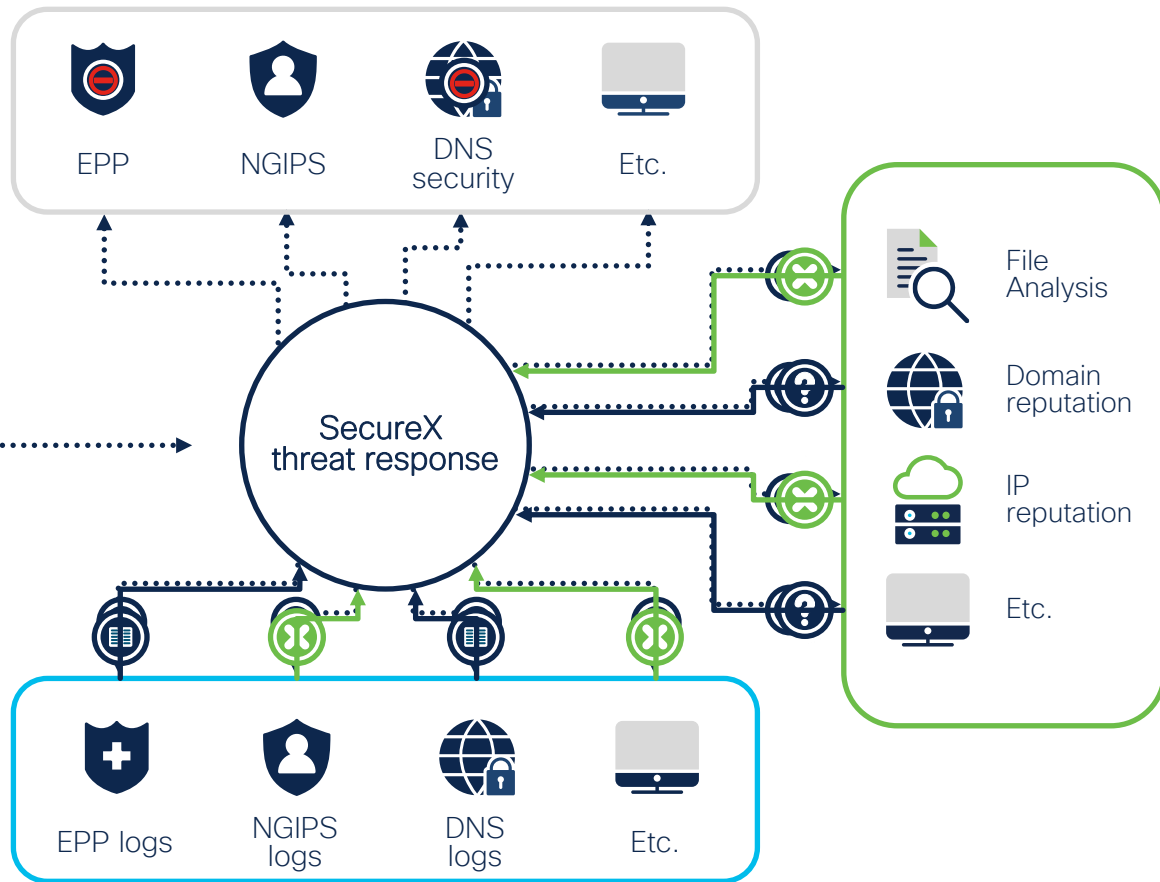


SecOps



API

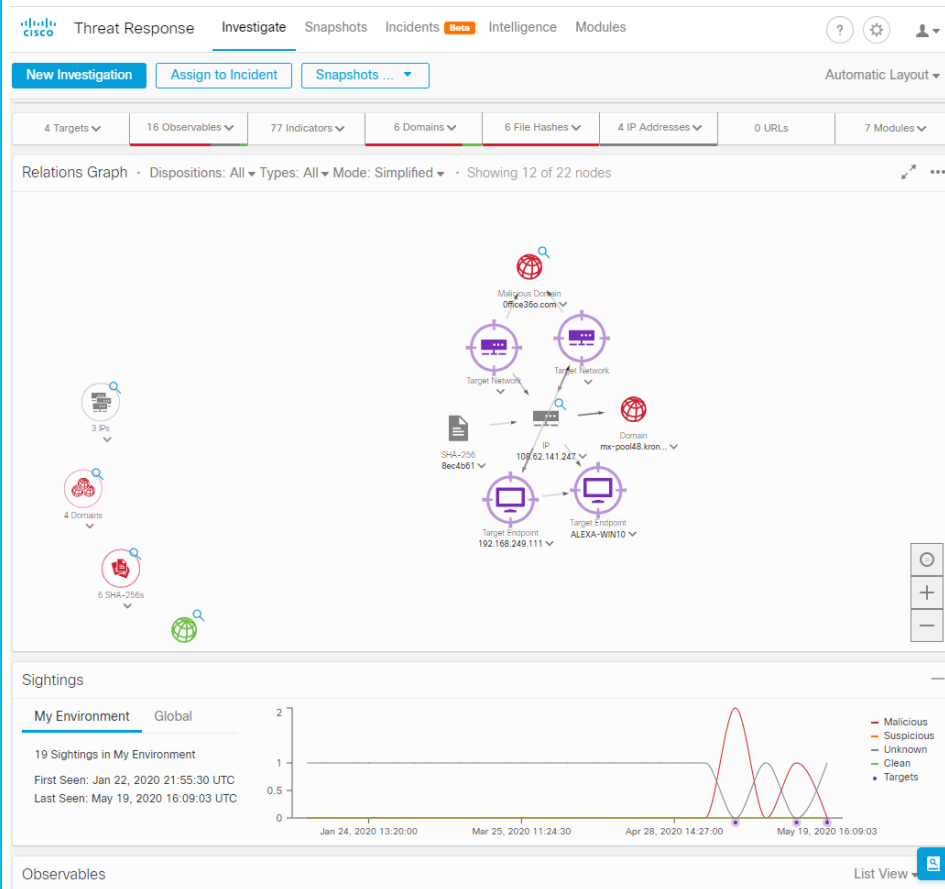

Automation
including
SecureX Orchestration



Concepts

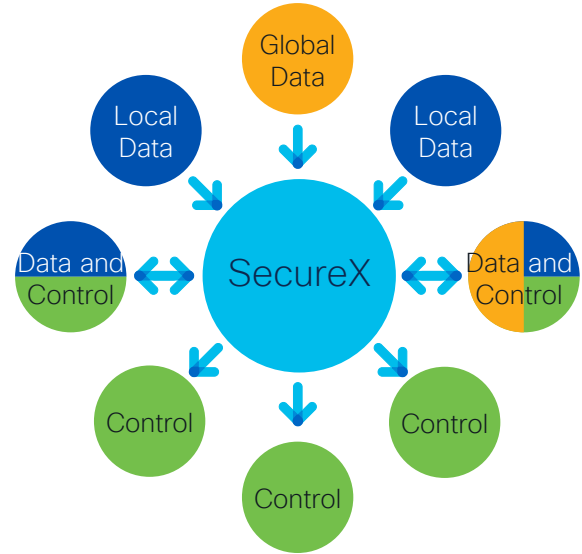
- “Cisco Threat Response”
- Observables
- Sightings & Targets
- Judgements & Verdicts
- Modules
 - Relay modules
- Data storage
 - Snapshots
 - Casebooks
 - Incidents

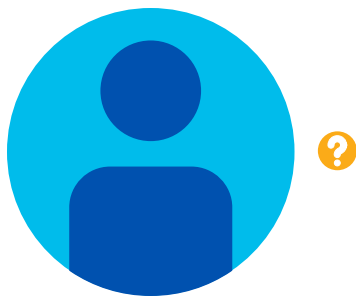
“Cisco Threat Response”



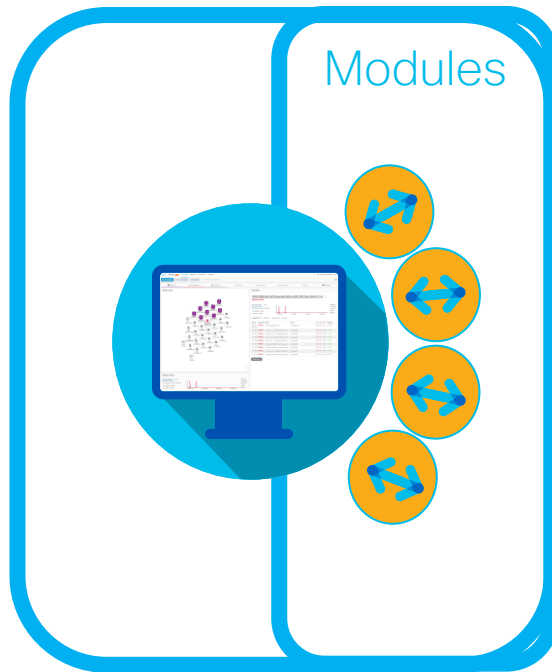
Modules

Pluggable code to talk to
SecureX-capable intel,
sensor, or control
technologies





SecOps

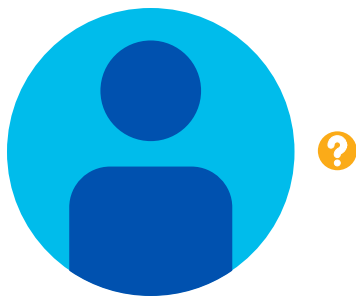


File
Analysis

Domain
reputation

IP
reputation

Etc



SecOps



File
Analysis

Domain
reputation

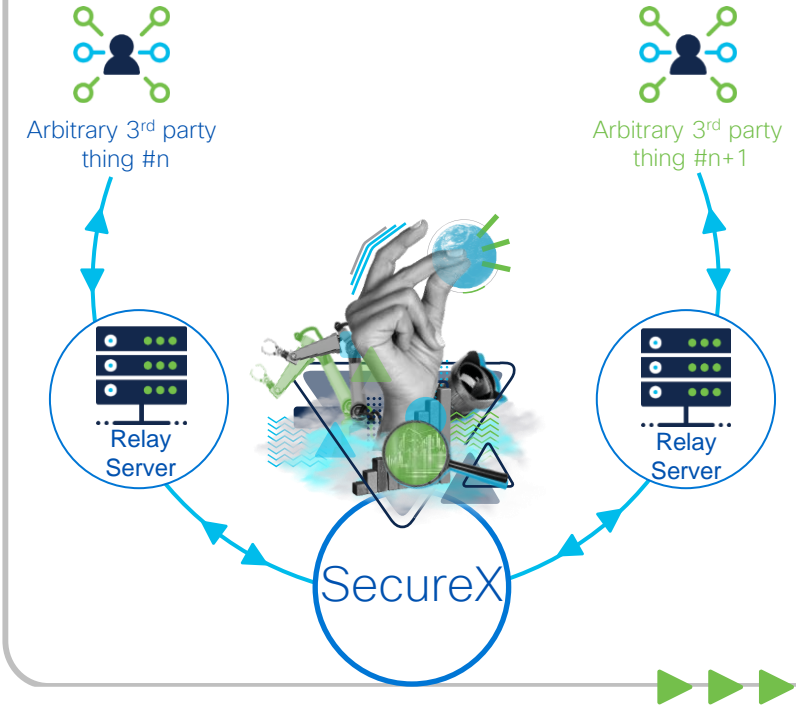
IP
reputation

Etc

Relay modules

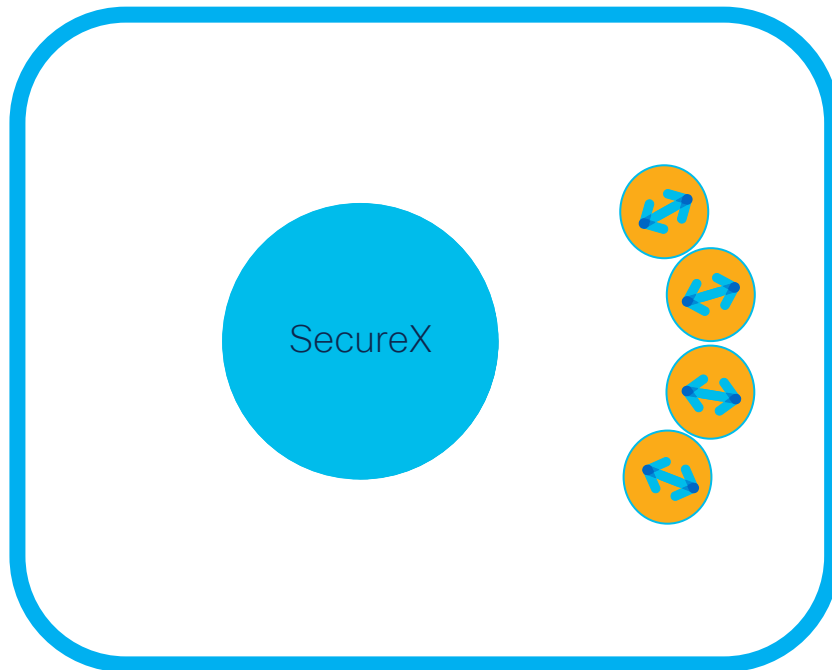


Relay server translates from 3rd party data model and APIs to Cisco Threat Intelligence Model and SecureX APIs





SecOps



Arbitrary
3rd party
thing #n

Arbitrary
3rd party
thing #n+1

File
Analysis


Domain
reputation

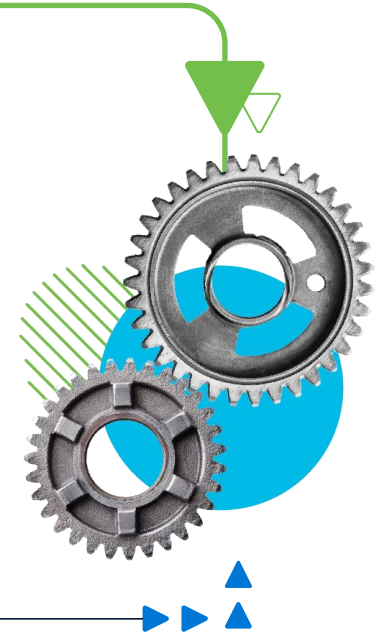

IP
reputation


Etc


Relay modules

The screenshot shows the Cisco SecureX Integration Modules page. The 'Generic Serverless Relay' module is highlighted with a green border. A green arrow points from this module to a graphic of interlocking gears on the right.

Module Name	Description	Learn More
APIVoid	Threat Analysis APIs for Threat Detection & Prevention	New Module
AbuseIPDB IP Checker	Check IP addresses against AbuseIPDB's abusive IP database	New Module
Akamai	Security Center provides answers to essential questions in the most intuitive and simple way	New Module
AlienVault Open Threat Exch...	The AlienVault Open Threat Exchange (CTX) is the world's most authoritative open threat information sharing and analysis network	New Module
Bastille Networks	RF monitoring for wireless intrusion detection and policy enforcement	New Module
CyberCrime Tracker	Featuring FIFTY message echos covering ALL computer scenes: Art, Warz, Hacking, Phishing, Technology, RDS Support, Demos, Coding, Sound, Gaming, as well as the typical...	New Module
Farsight Security DNSDB®	Farsight Security DNSDB® is the world's largest DNS intelligence database that provides a unique, fact-based, multifaceted view of the configuration of the global Internet infrastructure	New Module
Generic Serverless Relay	Generic Serverless Relay module that can be used when developing new integrations	New Module
Giganon ThreatINSIGHT	Accelerate network detection and response with Giganon ThreatINSIGHT - a cloud-native, high-velocity NDR solution	New Module
Google Chronicle	Chronicle is a cloud service, built as a specialized layer on top of core Google infrastructure, designed so that enterprises can privately retain, analyze and search the massive amounts of...	New Module
Google Safe Browsing	Safe Browsing is a Google service that lets client applications check URLs against Google's constantly updated lists of unsafe web resources. Examples of unsafe web resources are social...	New Module
Have I Been Pwned	Have I Been Pwned allows you to search across multiple data breaches to see if your email address has been compromised	New Module
IstPhishing	The IstPhishing Threat Detection Rest API allows to check in real time and in a fully automated process whether an URL is a phishing or a spam website	New Module
Microsoft Graph Security API	The Microsoft Graph Security API is an intermediary service that provides a single programmatic interface to connect multiple Microsoft Graph Security providers. Requests t...	New Module
Pulsedive	Pulsedive threat intelligence enriches any domain, URL, or IP Scan new indicators, pivot to search on any data point, and investigate threats	New Module
Qualys IOC	Qualys IOC enables threat hunting, detection of suspicious activity, and detection of malware for devices both on / off the network	New Module
Radware Cloud DDoS Protecti...	Radware's Cloud DDoS Protection Services deliver the most accurate and rapid protection from today's constantly evolving DDoS threats	New Module
Radware Cloud WAF Service	Radware's Cloud WAF Service provides adaptive web security protection in an easy to use, hassle free service	New Module
SecureX CESA Relay	SecureX CESA Relay is a Splunk Technical Add-on which queries CESA/NM Data Sources logs within Splunk	New Module
SecurityTrails	SecurityTrails can enrich your data with passive and historical data	New Module
ServiceNow Security Incident Re...	ServiceNow® SecOps (Security Operations) connects your existing security tools to prioritize and respond to vulnerabilities and security incidents faster	New Module
Shodan	Shodan is the world's first search engine for Internet-connected devices	New Module
Signal Sciences Next-Gen WAF	Protect apps running on your network from OWASP attacks with no tuning. Signal Sciences next-gen WAF deploys anywhere in your technology stack	New Module
Sigint Sixgill Darkfeed	Sigint's premium underground intelligence collection capabilities, real-time collection and advanced warning about IOCs to help you keep your edge against unknown threats	New Module
SpyCloud Account Takeover Pr...	SpyCloud helps enterprises protect accounts from takeover by monitoring for suspicious activity early, before criminals can	New Module
Threatscore Cyberprotect	Threatscore is a cloud-based threat intelligence platform	New Module
uriscan. URL and website san...	uriscan. is a cloud-based threat intelligence platform	New Module



Threat Response: Relays and Relay Modules

Relays can be used to provide to SecureX and via SecureX, any of the following supported functions from any technology capable of providing them

- Reputations (malicious, suspicious, etc)
- Sightings (local or global)
- Response/Enforcement (block or quarantine etc on observable)
- Reference Links (search for this observable in external UI)

Observables

Anything that can be observed...

- IP
- Domain
- URL
- File hash
- Email address
- User Identity
- User Agent
- Etc
- ...



Sightings

An observable being...
observed.

- Firewall alert
- AMP file activity
- Threat Grid file submission
- ESA email logs
- WSA proxy logs
- SWE alarm
- Umbrella DNS request
- Etc
- ...



Targets

A local asset involved in a sighting



- Endpoint
- Email address
- IP address
- Server
- Process
- User Identity
- Etc
- ...

Judgements & Verdicts

Reputations and opinions on observables

- Malicious
- Suspicious
- Unknown
- Clean



Judgements	Verdicts
Multiple per module	One per module
Points of info	Holistic rendering

Data storage



Snapshot

- Point in time record of investigation
- User-created
- URL accessible



Casebook

- Set of observables
- User-created
- User notes
- Pivot Menus and actions
- Available across products



Incident

- Security Event
- System or user created
- System triaged
- User-managed

Cisco Threat Intelligence Model

CTIM is closely based on [STIX](#) with a few simplifications

The primary focus of CTIM is the decomposition, storage, and retrieval of vast quantities of existing threat intelligence.

Data Model examples:

Actor	Feedback	Malware	IdentityAssertion
Attack Pattern	Incident	Relationship	Tool
Campaign	Indicator	Casebook	Verdict
Course of Action	Judgement	Sighting	Weakness

Threat Response: Relays and Relay Modules

Relays can be used to provide to SecureX and via SecureX, any of the following supported functions from any technology capable of providing them

- Reputations (malicious, suspicious, etc)
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Demo #1 – Browser Plugin

Threat Response Recap



SecureX Threat Response can help you

- Hunt for threats
- Defend proactively against threats
- Remediate discovered attacks
- Investigate and manage incidents



You can extend Threat Response via Relays to leverage additional sources of

- Threat Intelligence
- Local Security Context
- Response and enforcement
- External references and lookups



You can leverage all capabilities of Threat Response over the API

- Tie them into existing tools
- Standalone automation scripts

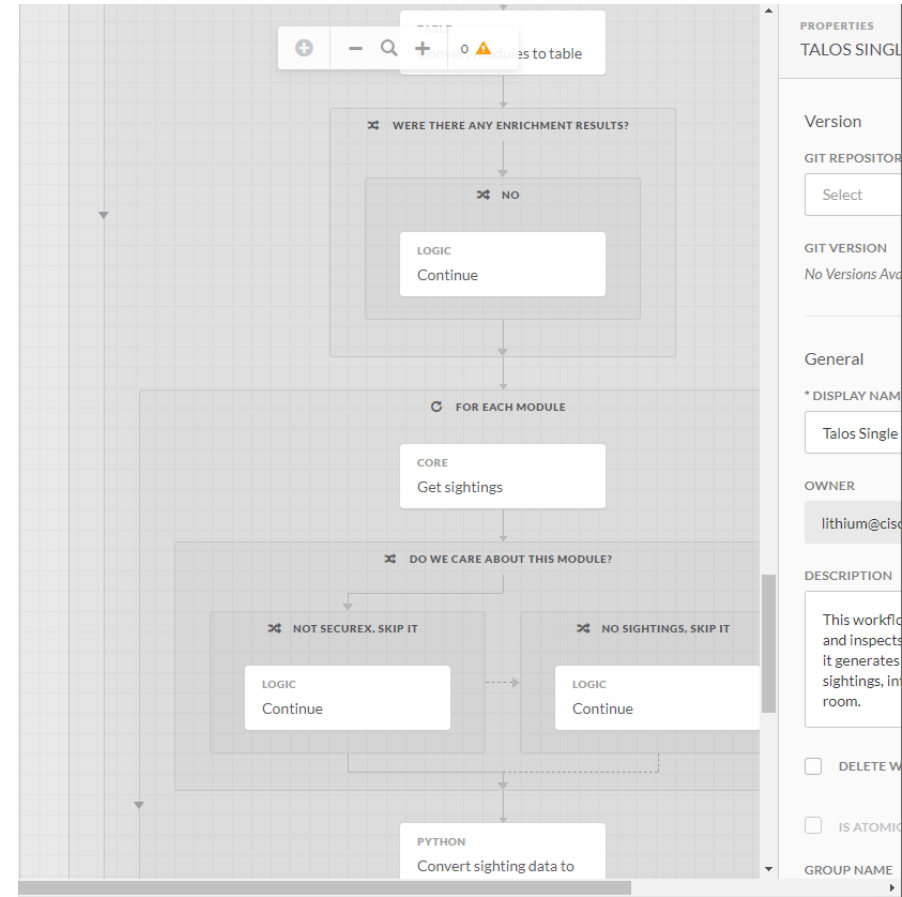
SecureX orchestration

Integration Use Cases for SecureX orchestration

- Incident & Ticket mgmt
- Automated Threat Hunting
- Phishing Investigations
- Manage Load Balancing
- Collect Threat Intelligence
- Find/Report Vulnerabilities
- Group Manual Responses
- Onboard New Users
- [...]

SecureX orchestration

- Workflows run in an interpreter
- Products/Services host their own APIs
- SecureX orchestration makes requests
 - Nature of requests is... wide open
 - “tell me about this observable”
 - “spin up another VPN head end”
 - “analyze this URL”
 - “ask for approval via Duo”
 - “record an incident / open a ticket”
 - “Post a chat in the Teams Space”
- SecureX orchestration can respond and react to results, and pass results between steps in the workflow



Concepts

- “Action Orchestrator”
- Adapter
- Workflow
- Applicable programming concepts
 - Flow Control
 - Variables

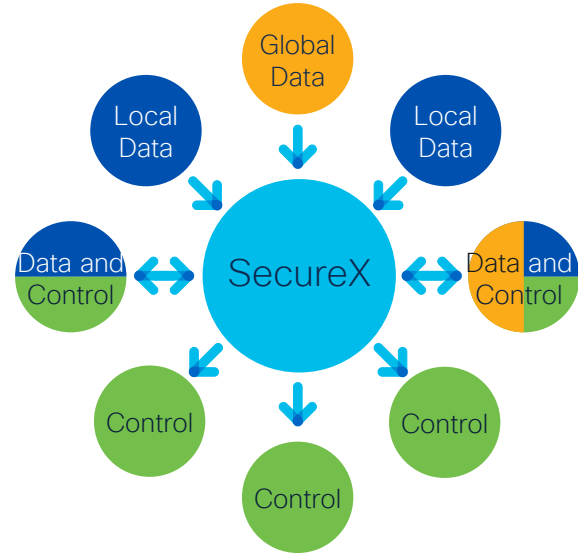
“Action Orchestrator”

The screenshot displays the Cisco Action Orchestrator web interface. At the top, a status bar shows 150 TOTAL workflows, 15 INVALID, 69 VALIDATED (highlighted in blue), and 0 FAVORITE. Below this is a search bar and an 'IMPORT' button. A 'NEW WORKFLOW' button is located in the top right corner. The main area is a grid of workflow cards. Each card includes a title, a description, and validation details (e.g., 'Validated by Matt Vander H... on 05/19/20 04:50 ...'). The workflows are categorized by type, such as SECUREX, SECUREX-PLAYBOOK, ORBITAL, and FMC API. Some cards have a star icon and a dropdown arrow in the top right corner. The left sidebar contains a vertical menu with icons for home, list, search, settings, calendar, notifications, and a gear icon for settings.

Workflow Name	Category	Validation Status
Talos RSS to CTR Casebook	SECUREX	Validated by Matt Vander H... on 05/19/20 04:50 ...
CTR Workflow		Validated by Oxana Sanniko... on 05/15/20 09:17 ...
Talos Single Blog Post to CTR Casebook	SECUREX-PLAYBOOK	Validated by Matt Vander H... on 05/14/20 06:55 ...
Secure Remote Worker: VPN Capacity (No Duo)	SECUREX-PLAYBOOK	Validated by Matt Vander H... on 05/13/20 08:34 ...
Secure Remote Worker: VPN Capacity (Duo)	SECUREX-PLAYBOOK	Validated by Naasief Edross on 05/11/20 06:07 am
CTR Enrich Observable osanniko		Validated by Oxana Sanniko... on 05/08/20 12:52 ...
Office 365 Traffic Offload for ASA	SECUREX-PLAYBOOK	Validated by Matt Vander H... on 05/08/20 07:26 ...
gacs-basic-wf		Validated by Gyorgy Acs on 05/08/20 03:41 am
ServiceNow Trickery		Validated by Matt Vander H... on 05/04/20 06:00 ...
Orbital Get Operating System	ORBITAL	Validated by Jamey Heary on 05/02/20 12:29 pm
fmc create object group		Validated by Aditya Sankar on 05/01/20 07:56 am
FMC API - POST FQDN object	FMC API +1	Validated by Aditya Sankar on 05/01/20 07:40 am
Authenticate FMC API	FMC API	
FMC API - Get Network Object Details	FMC API +1	
FMC API - Get Network Group Objects	FMC API +1	

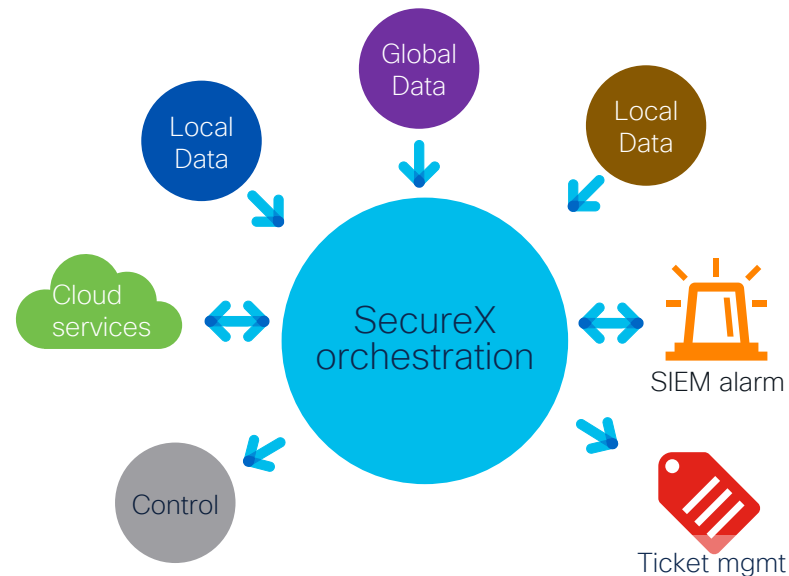
Adapters

Pluggable code to talk to
SecureX-capable intel,
sensor, or control
technologies



Adapters

Pluggable code to talk to any arbitrary technologies



Custom Adapters



Arbitrary 3rd Party Integrations?

1. Create HTTP API target
2. *optional* Configure Account Keys
3. Use HTTP adapter on Step 1 Target
4. *Optional* Use included Python Adapter to write Python script
5. Fetch data from Step 3 adapter, *optional* process response with Step 4 script.

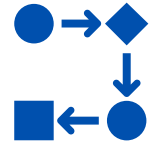
If
REST
Then
YES

Multiple Generic Protocol Adapters

- HTTP
- FTP
- JDBC
- SMTP
- SNMP
- SSH

Workflow

- A series of steps to follow
- A “program”
- Created by:
 - Cisco
 - User
 - Community



Programming Concepts

- No specific language experience required
- Familiarity a plus with ideas like
 - Flow Control
 - Conditionals
 - Loops
 - Variables

Workflow Triggers

- Manually
 - In the Orchestration UI
- Email
 - to configured IMAP inbox
- From SecureX threat response
 - Via pivot menu item
 - For workflows that take one input observable
- Calendar/schedule
 - “Every day at 2:42”
 - “Every n minutes”
 - AKA pull/poll to external flag, SXtr API, etc

Demo #1 – Workflow editor

Workflow Example: Phishing Investigation



Phishing Investigation Workflow



Phishing Investigation Workflow

- Receive Email
- Process Attachment(s)
- Inspect headers and body for Observables (email addresses, domains, files, etc)
- Check Observables Dispositions (malicious, suspicious, unknown, clean)
- Analyze unknown Observables (if supported, e.g. files / URLs)
- Make verdict based on all dispositions
 - If Malicious, alert user and SOC and create SecureX Incident
 - If Suspicious or Unknown alert SOC to continue investigation

Phishing Investigation Workflow



Interesting



Not Interesting



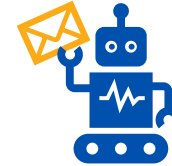
Phishing Investigation Workflow

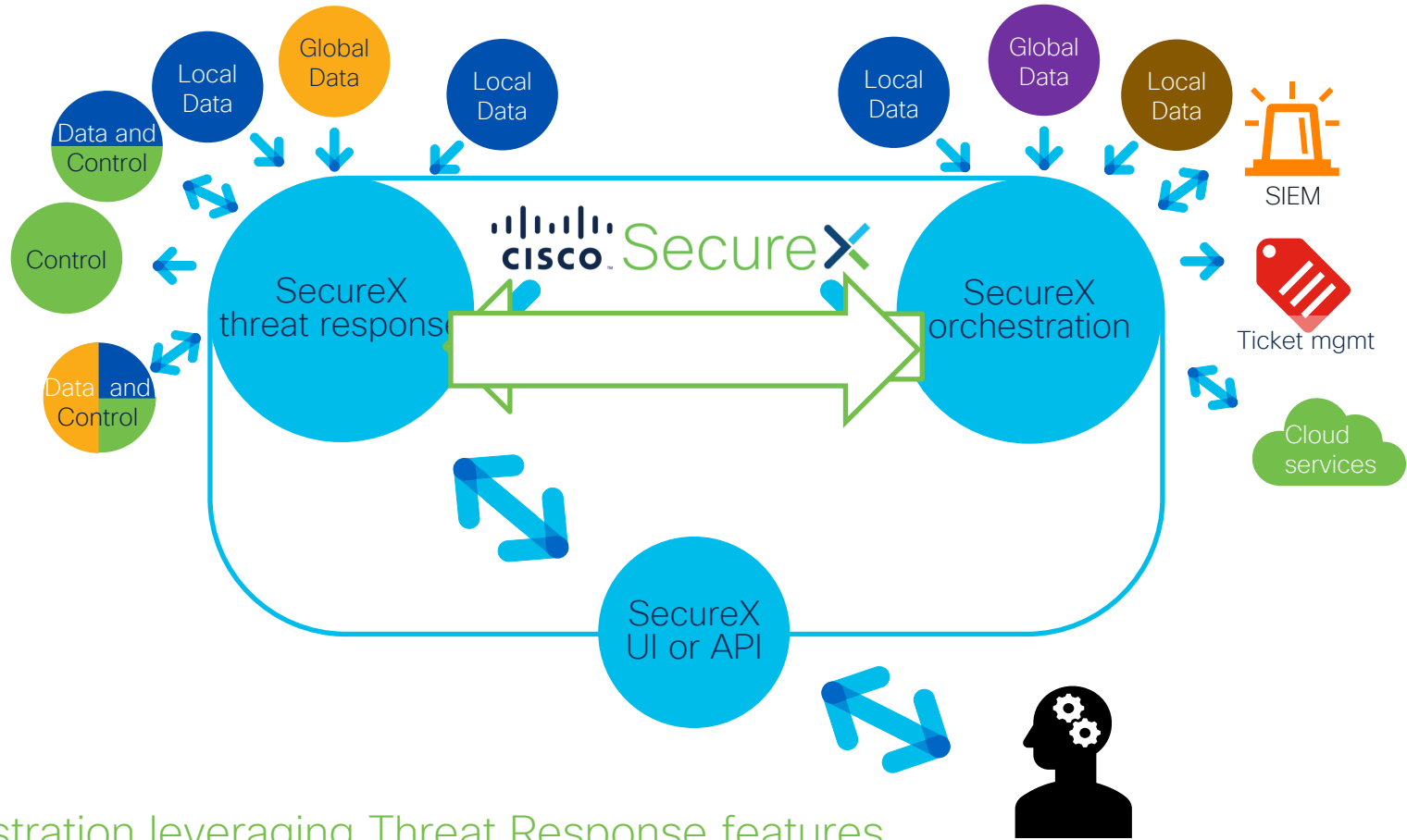


Interesting



Not Interesting



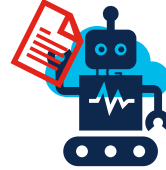
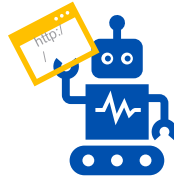


Orchestration leveraging Threat Response features

Workflow Example: Submit URL to ThreatGrid



“URL to ThreatGrid” Workflow



Submit URL to ThreatGrid Workflow

- Verify URL
- Submit to ThreatGrid via ThreatGrid API
- Provide report link to analyst

Add a Workflow to Threat Response Menus

PROPERTIES

SUBMIT URL TO THREAT GRID

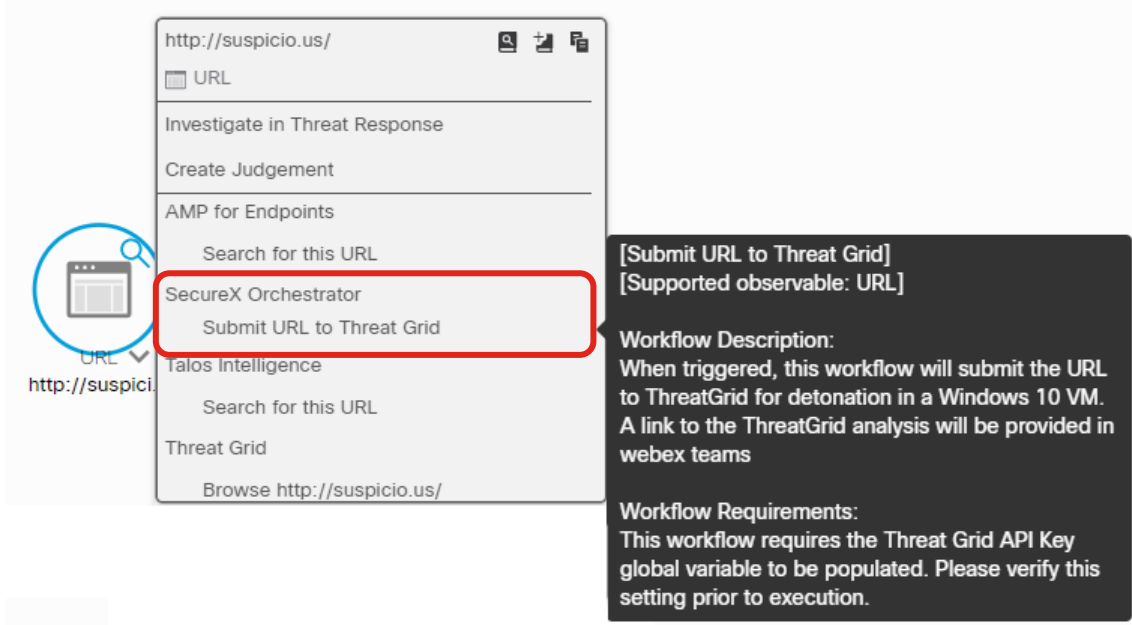
CATEGORY

response ✕

Variables

NAME	TYPE	SCOPE	VALUE
observable_type	String	Input	
observable_value	String	Input	

Add a Workflow to Threat Response Menus

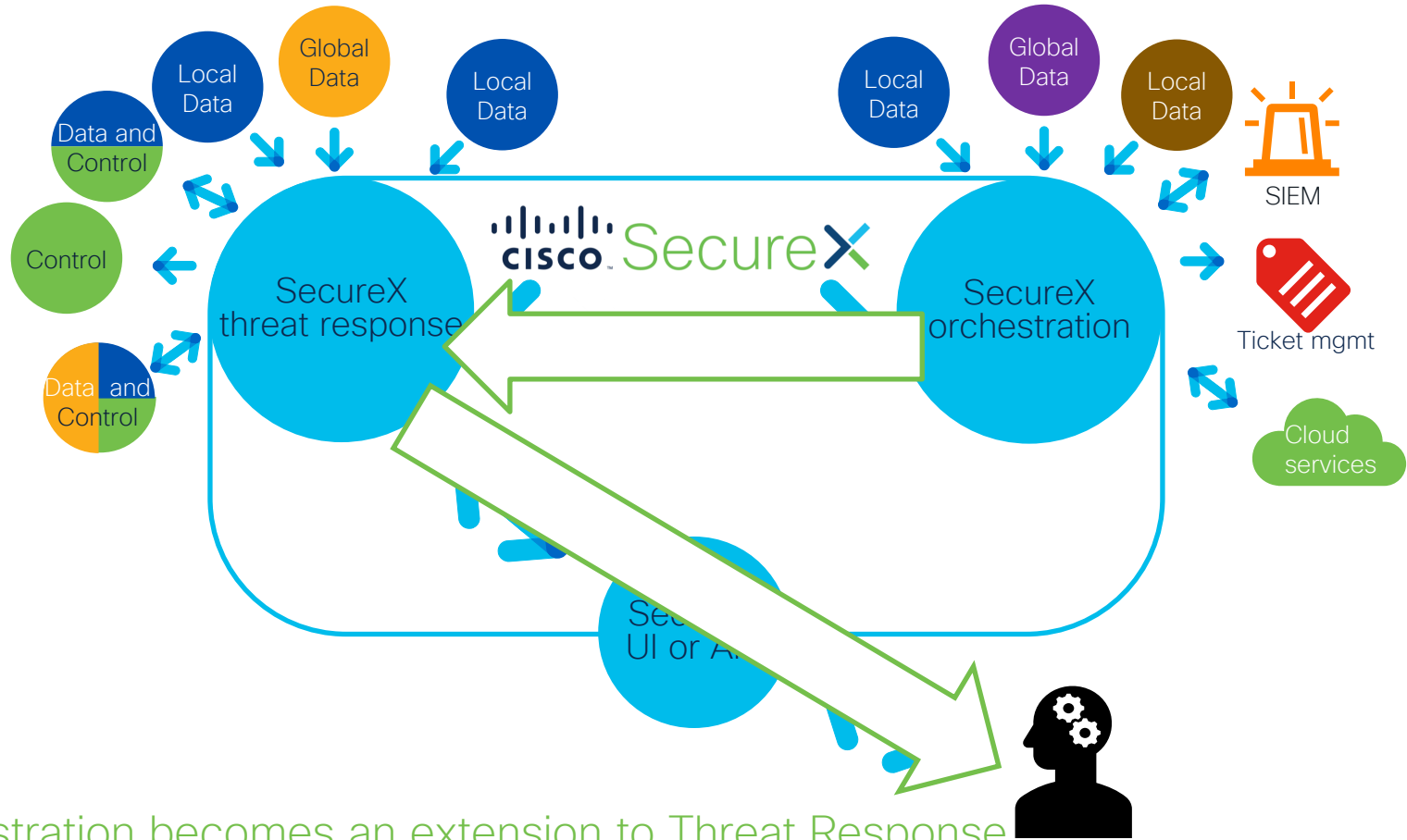


The screenshot shows a web browser window with the URL `http://suspicio.us/`. A search icon is visible in the top right corner. Below the URL bar, a dropdown menu is open, displaying various actions. The 'SecureX Orchestrator' section is highlighted with a red box, and the 'Submit URL to Threat Grid' option is selected. To the left of the menu, a blue circle highlights the 'URL' icon and the text 'URL' and 'http://suspicio.us/'. To the right of the menu, a dark grey box contains the following information:

[Submit URL to Threat Grid]
[Supported observable: URL]

Workflow Description:
When triggered, this workflow will submit the URL to ThreatGrid for detonation in a Windows 10 VM. A link to the ThreatGrid analysis will be provided in webex teams

Workflow Requirements:
This workflow requires the Threat Grid API Key global variable to be populated. Please verify this setting prior to execution.



Orchestration becomes an extension to Threat Response

Need response
capability from a 3rd
party RESTful API
for which there is
no Module or Relay
Module?

- No Problem!
- “if REST then yes”
- Create a workflow that uses the API
- Enable that workflow for the Threat Response menu
- Done!
- *(or, write a Relay Module)*

Orchestration Recap



- SecureX orchestration can help you
- Secure your assets more efficiently
 - Reduce human error
 - Reduce human lag
 - Adhere to documented policies



- You can extend Orchestration via protocol-based adapters to leverage additional services from any software that supports:
- HTTP, FTP, SMTP, SNMP, SSH, etc



- You can leverage all capabilities of Orchestration as Threat Response menu actions for use in
- SecureX console
 - Threat Response API scripts

Conclusion & Resources



Recap

- SecureX Brings together
 - Local security context
 - Threat intelligence
 - Response capabilities
 - Automation & Orchestration
- SecureX reduces operational complexity
- SecureX is API-driven
- SecureX Threat Response
 - Fully leverageable over API
 - Can include arbitrary technologies via Custom Relays
 - Can include custom response actions via Orchestration Workflows
- SecureX Orchestration
 - IS a dev environment
 - Workflows are triggerable externally via email, remote flags, etc
 - Can leverage arbitrary technologies over multiple built in protocols

The Bottom Line:

- SecureX is heavily extensible to accommodate multiple
 - Organization security needs
 - Existing technologies already in your SOC
 - Future technologies you may add, Cisco or not
- SecureX is forward-compatible to drive
 - Progress up the maturity model ladder
 - Increased visibility, efficiency, and security

Resources

Development References to continue learning ...

General SecureX Programmability

 developer.cisco.com/SecureX


 cs.co/SecureX_integration_workflows

 cs.co/spoton_series

 Product Documentation

 github.com/CiscoSecurity


threat response

 Self paced API labs: cs.co/CTR-API-labs

 CTIM: cs.co/CTIM_docs

 Code: cs.co/SXtr_repo

orchestration

 Tutorials and demos: cs.co/SXO_Videos

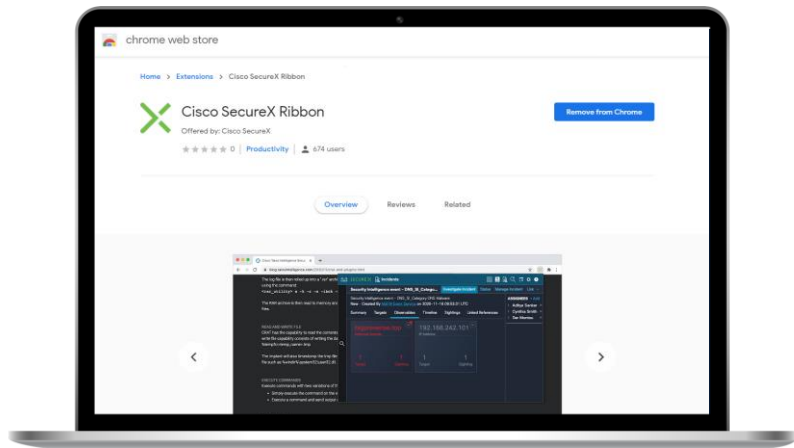
 Documentation: cs.co/SXO_docs

 Code: cs.co/SXO_repo

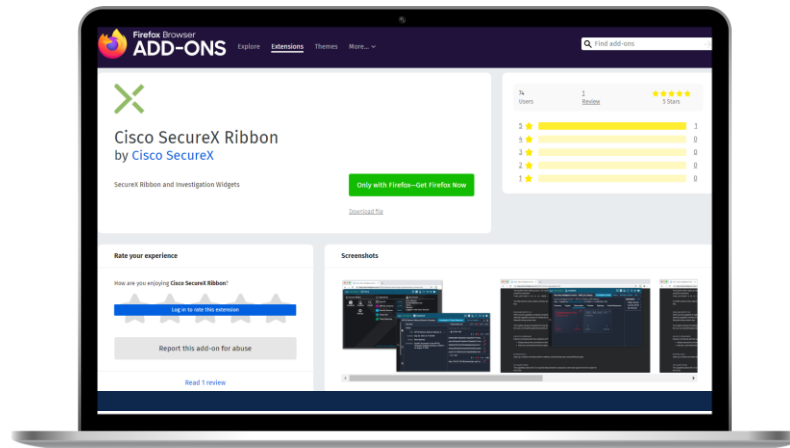
General SecureX Resources

- SecureX introduction:
 - cisco.com/go/securex
- Watch and save SecureX playlist
 - cs.co/SecureX_videos
- SecureX FAQ:
 - cs.co/SecureX_faq
- SecureX content at prior Cisco Lives
 - cs.co/SecureX_CiscoLive
- Get Started!
 - security.cisco.com

cs.co/SecureX_Chrome



SecureX Browser Plugins



cs.co/SecureX_Firefox

Continue Your Education



Visit the Cisco Showcase for related demos.



Book your one-on-one Meet the Engineer meeting.



Attend any of the related sessions at the DevNet, Capture the Flag, and Walk-in Labs zones.



Visit the On-Demand Library for more sessions at ciscolive.com/on-demand.

Continue your Education

SecureX CL AMS 23 Learning Map



<https://www.ciscolive.com/emea/learn/sessions/session-catalog.html?search.learningmap=1614366204738006MRlo#/>

Objectives

Overview

- Understand SecureX purpose and application
- Understand integration use cases (why integrate?)

Threat Response

- Understand Modules and Relays

Orchestration

- Understand Workflows and Targets

Complete your Session Survey

- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (open from Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Session Catalog and clicking the "Attendee Dashboard" at <https://www.ciscolive.com/emea/learn/sessions/session-catalog.html>



Questions?



The bridge to possible

Thank you

CISCO *Live!*

