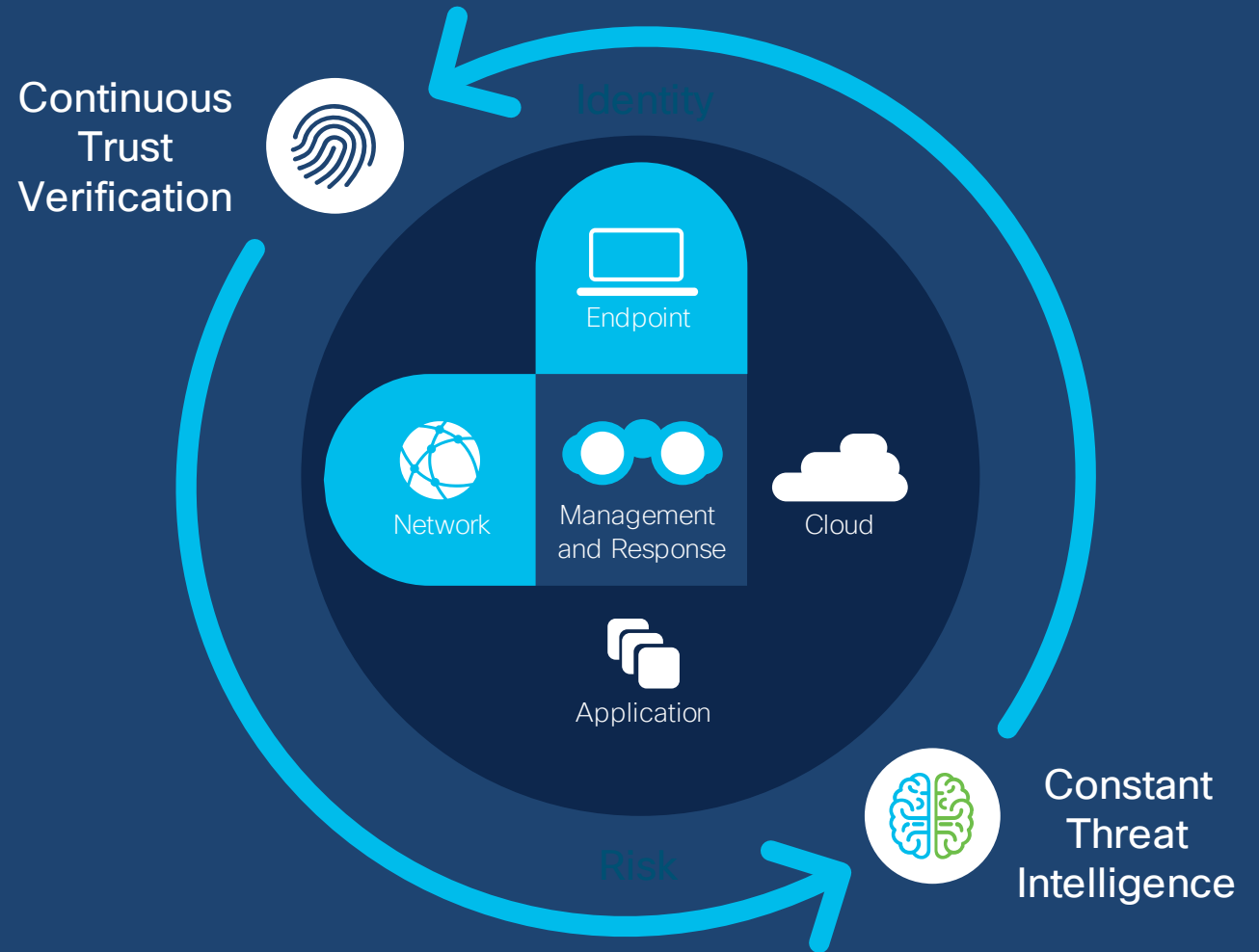


Cisco SecureX

Martin Rulec – mrulec@cisco.com
GVE Technical Solutions Architect
January 2021



Protect your business with the strongest security team on the planet



The Cisco Security Platform

**CISCO
SECURE**

**CISCO
SECURE X**

Cisco Secure Platform

Network
Security



Secure Network Analytics

Formerly Stealthwatch



Secure Firewall

Formerly Next-Generation Firewall (NGFW)



Identity Services Engine

Cloud Edge



Umbrella

User and
Endpoint
Protection



Secure Endpoint

Formerly Advanced Malware Protection (AMP) for Endpoints



Secure Email

Formerly Email Security



Secure Access by Duo

Application
Security



Secure Workload

Formerly Tetration

A platform approach **confidently tackles** the most pressing security operation challenges



Simplicity

Integrate technology together with true **turnkey interoperability**



Visibility

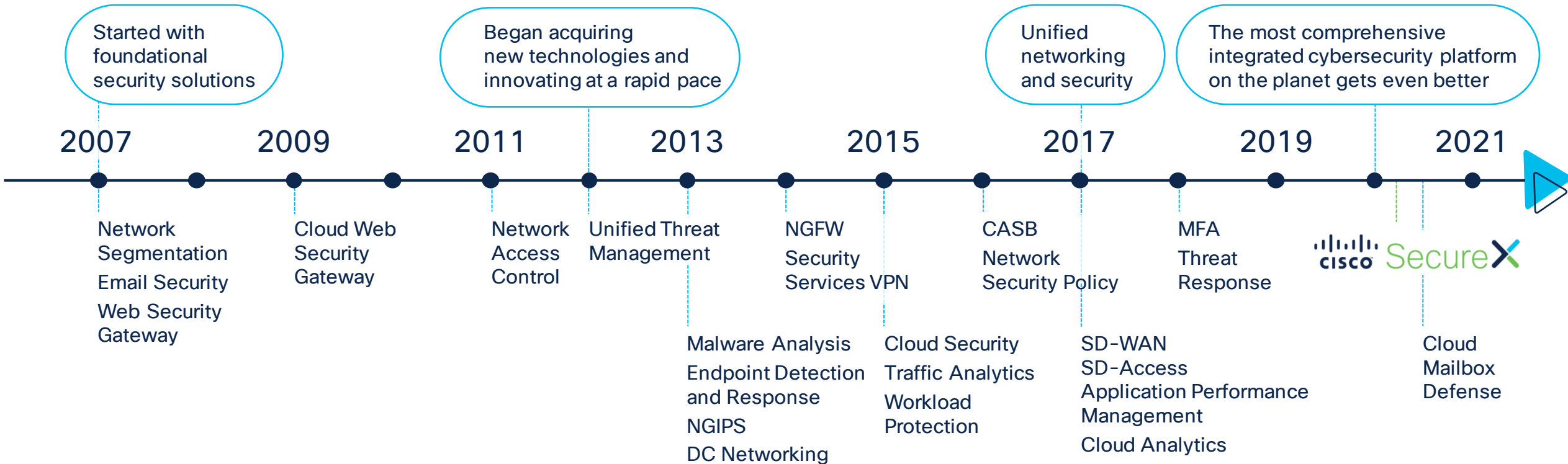
Accelerate **time to detect and investigate** threats and maintain contextual awareness



Efficiency

Accelerate **time to remediate** and automate workflows to lower costs and strengthen security

Building a platform **takes time** and **engineering talent**



Over \$6B in M&A over the past 6 years



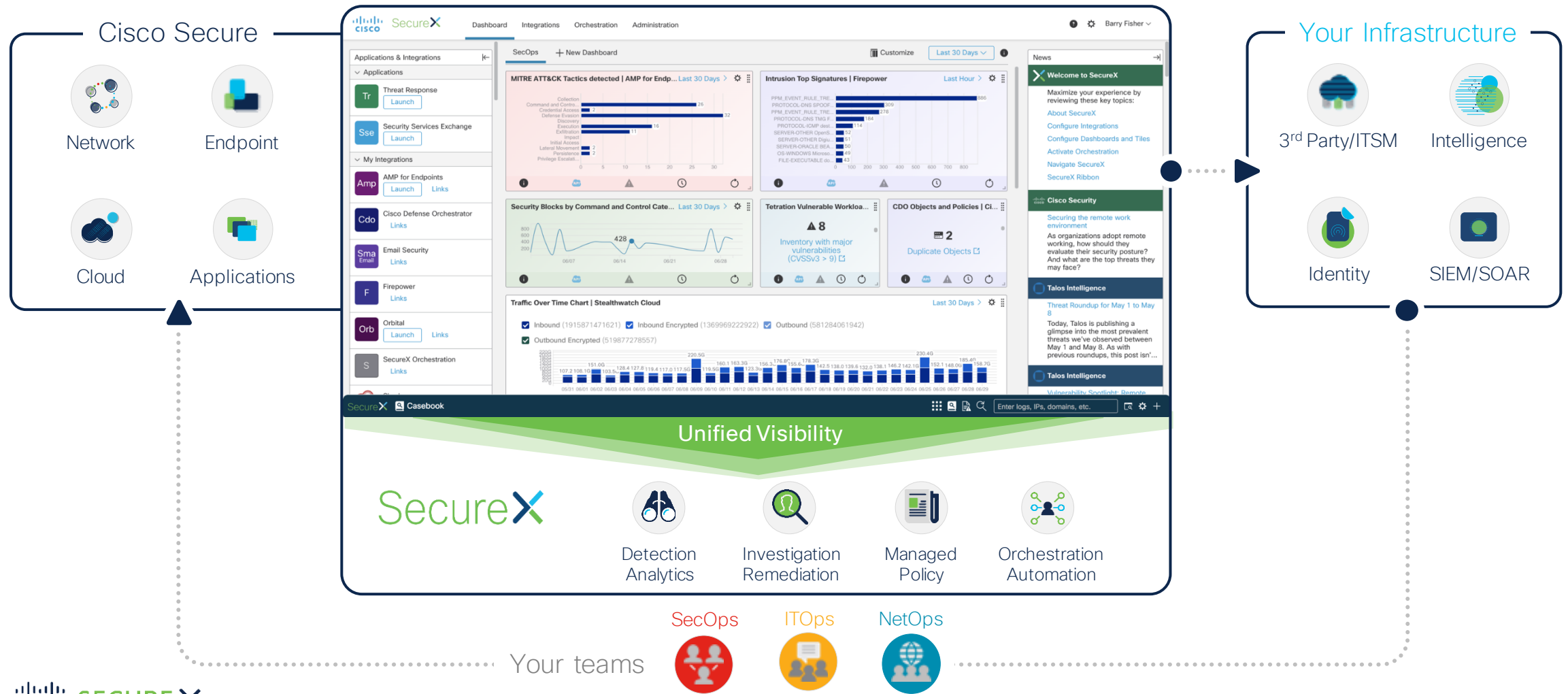
Over 400 threat researchers



Unparalleled platform breadth

Introducing SecureX

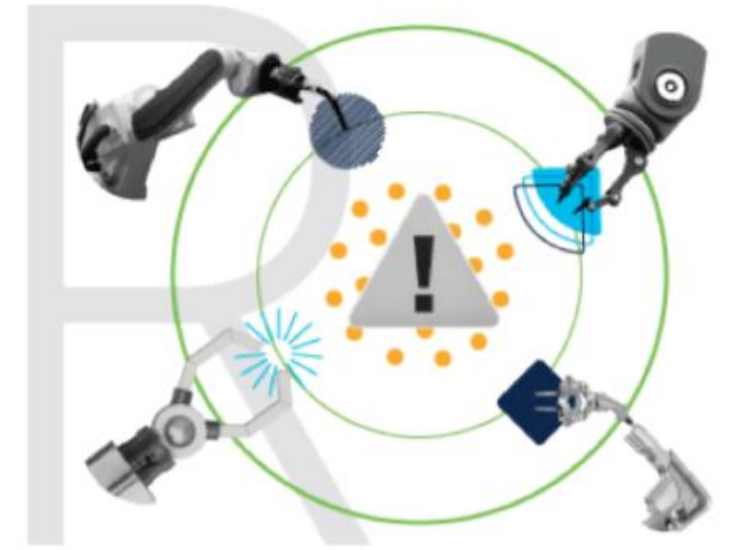
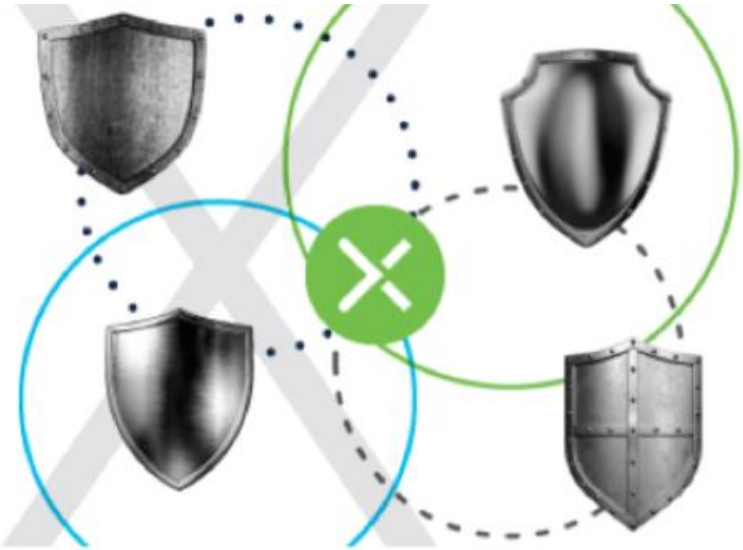
A cloud-native, **built-in platform** experience within our portfolio



The broadest,
most integrated
set of XDR
capabilities on
the market



Broadest XDR capabilities through ...



Built-in eXtensions – Simplify breach defense by natively connecting detection to response with capabilities integrated within each other products' consoles across the broadest portfolio.

Intelligent Detections – Identify malicious intent and risk exposure more accurately by connecting machine learning-enhanced analytics across the most data sources.

Confident Responses – Reduce threat dwell times by pinpointing root causes with visual investigations and by connecting playbook-driven automation across the most control points.

SecureX is a **cloud-native** security platform



Integrated and open for
simplicity



Unified in one location for
visibility



Maximized operational
efficiency

SecureX

integrations
built-in, pre-built
or custom

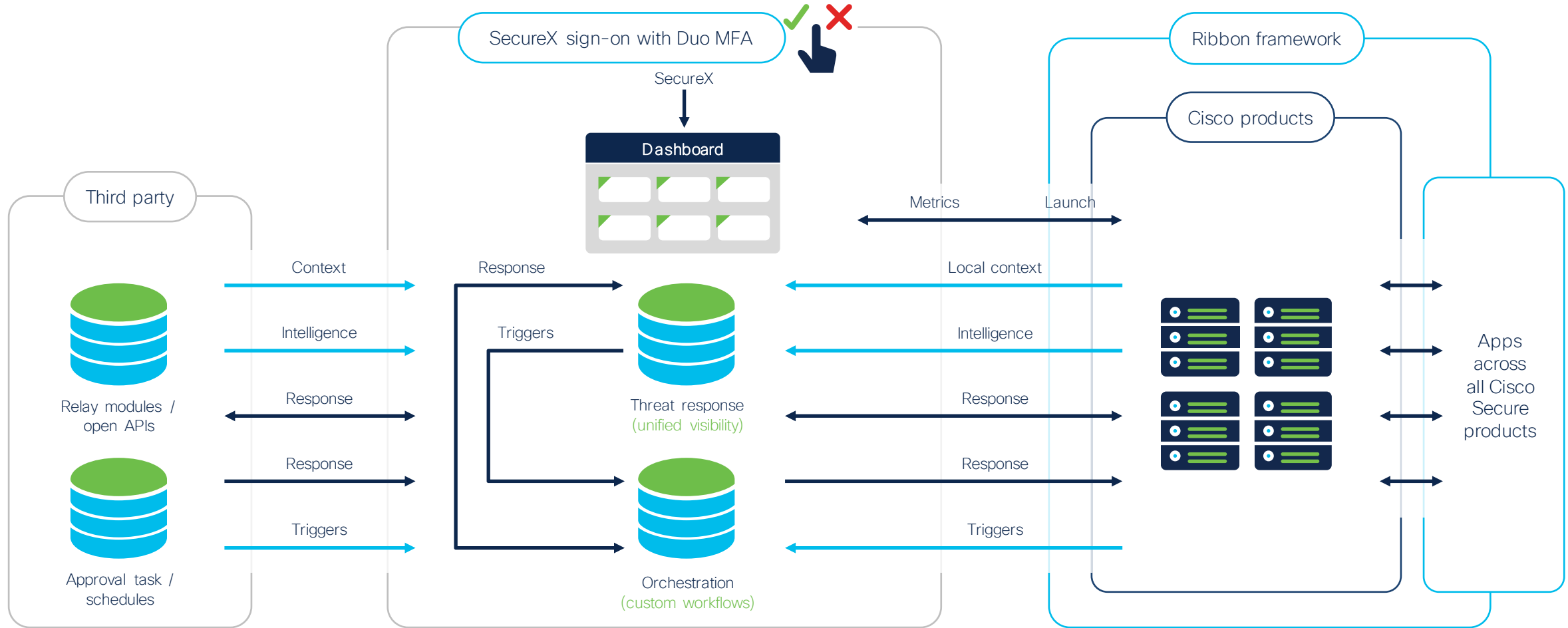
ribbon & sign-on
never leaves you
maintains context

dashboard
customizable for what
matters to you

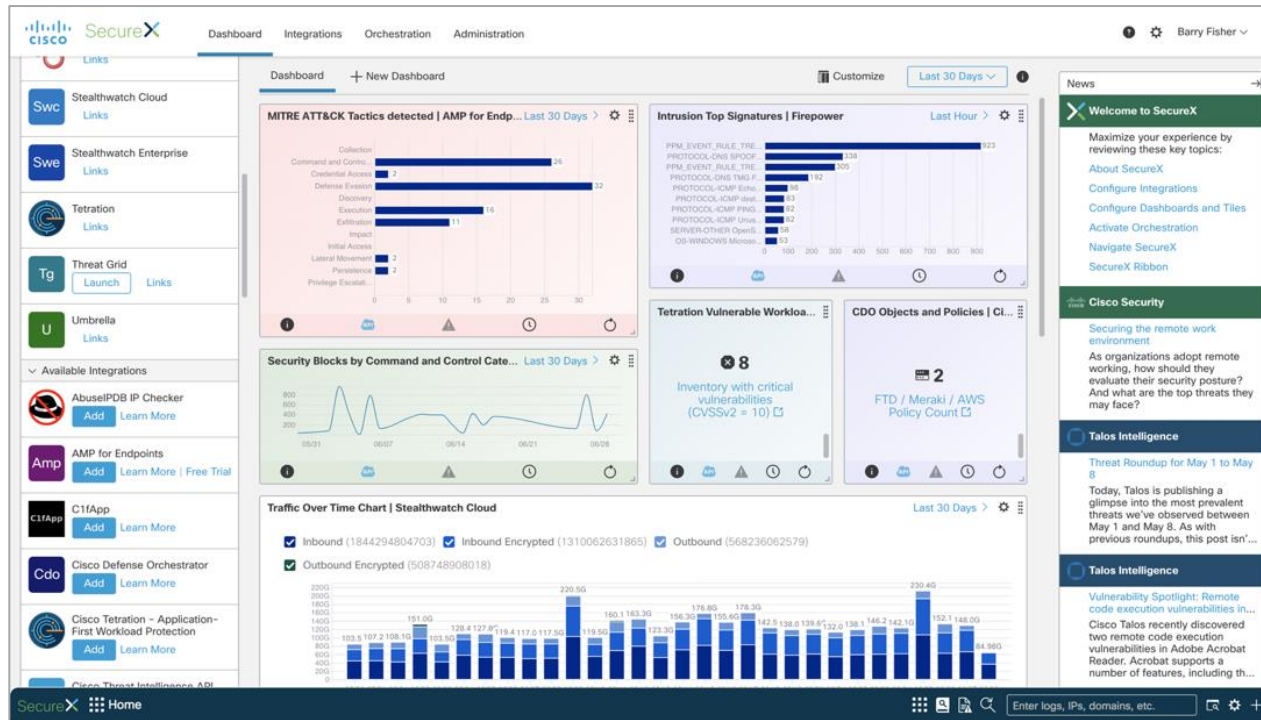
threat response
is at the core
of the platform

orchestration
drag-drop GUI
for no/low code

SecureX architecture



A new level of **visibility** with SecureX dashboard



▶ **Applications (left)**
View, launch or trial the integrated products

▶ **Tiles (middle)**
Presents metrics and operational measures from the integrated products

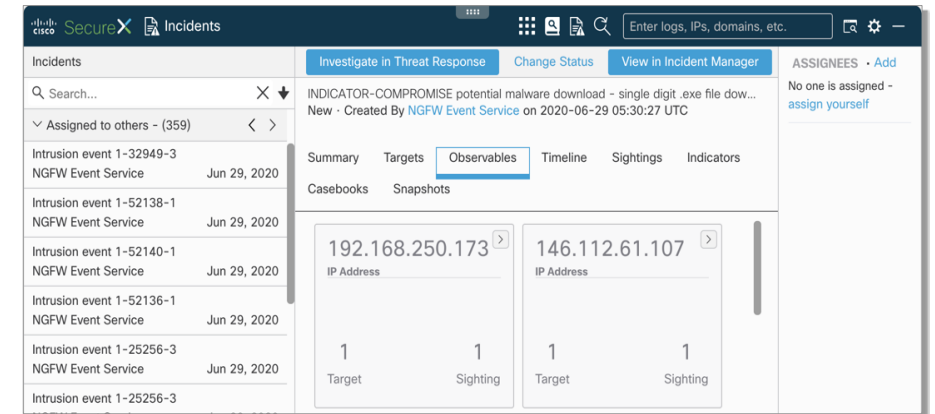
▶ **News (right)**
Product updates, industry news, and blog posts

Understand what matters in one view across your security infrastructure



SecureX ribbon

- ▶ SecureX ribbon allows you to carry the most relevant security context and threat intelligence with you across all products
- ▶ Transport framework for functionality: Take the capabilities of SecureX and your integrated products with you when you go to any other product console. Have all your best tools handy
- ▶ Ties products together and provides unified experience and broad response capabilities across all the products
- ▶ Cross-launch capability: Pivot into any other products from the ribbon
- ▶ Ribbon apps: Brokered by SecureX, provided by SecureX and other products



How true **simplicity** is experienced



BEFORE: 32 minutesor months 😊

1. IOC / alert



2. Investigate incidents in multiple consoles

Product dashboard 1



Product dashboard 2



Product dashboard 3



Product dashboard 4



3. Remediate by coordinating multiple teams

Product dashboard 1



Product dashboard 2



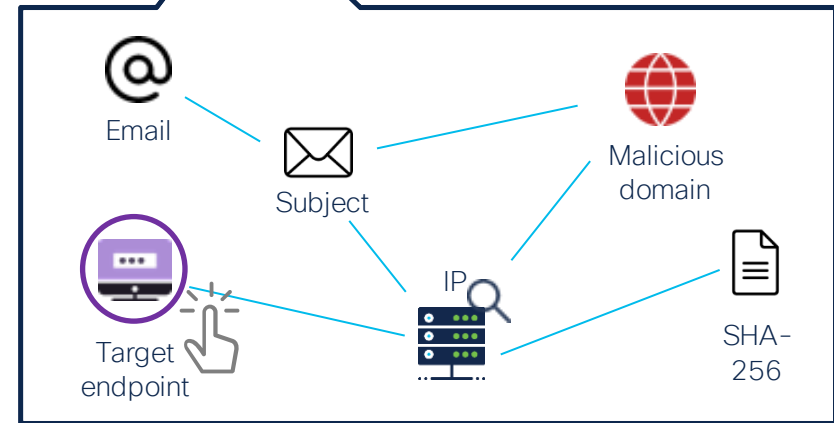
Product dashboard 3



Product dashboard 4



AFTER: 5 minutes



In one view: **Query intel and telemetry** from multiple integrated products

Quickly visualize the threat impact in your environment

Remediate directly from one UI

Accelerate investigations in SecureX

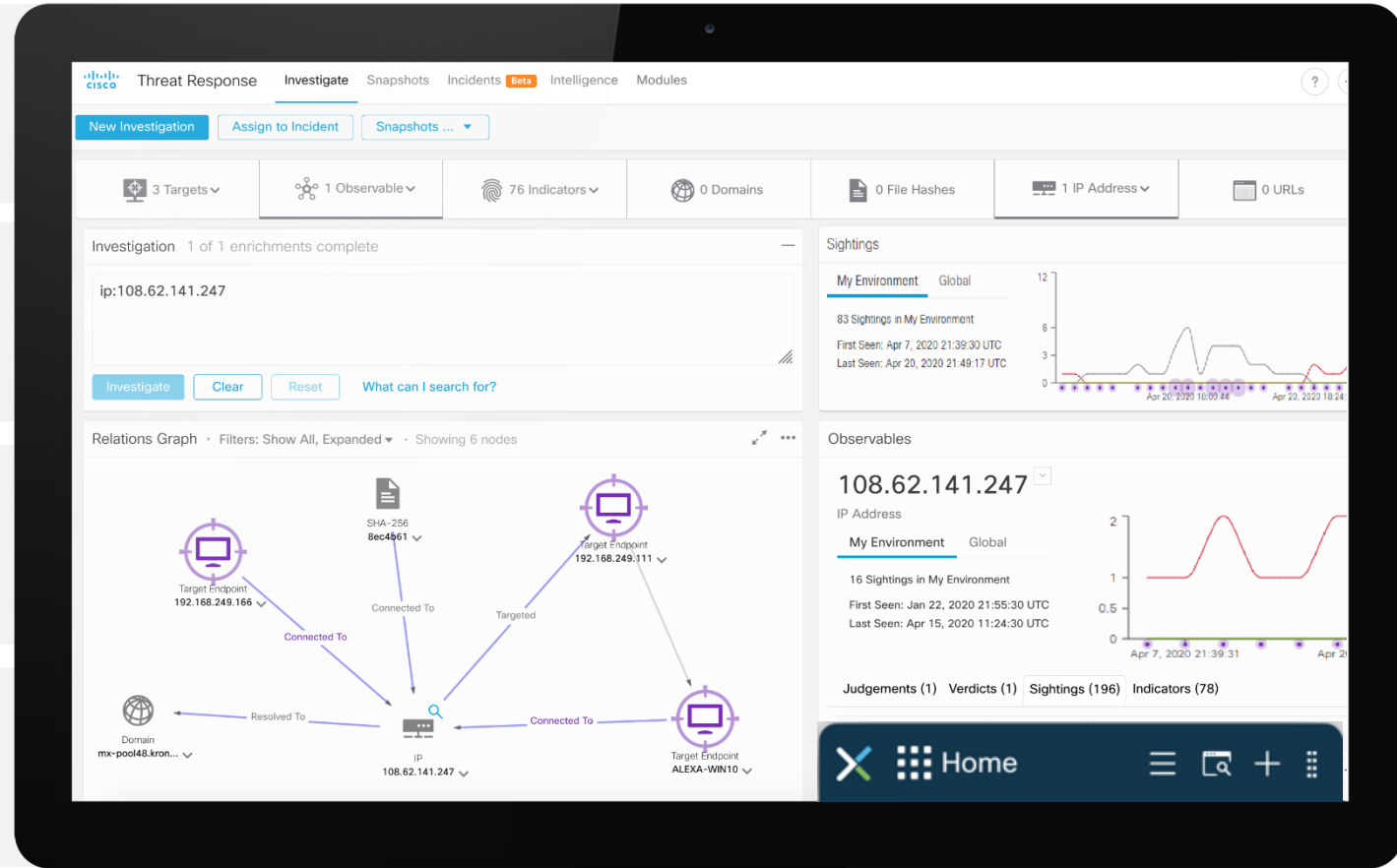
SecureX threat response

Aggregate and query global intel and local context in one view

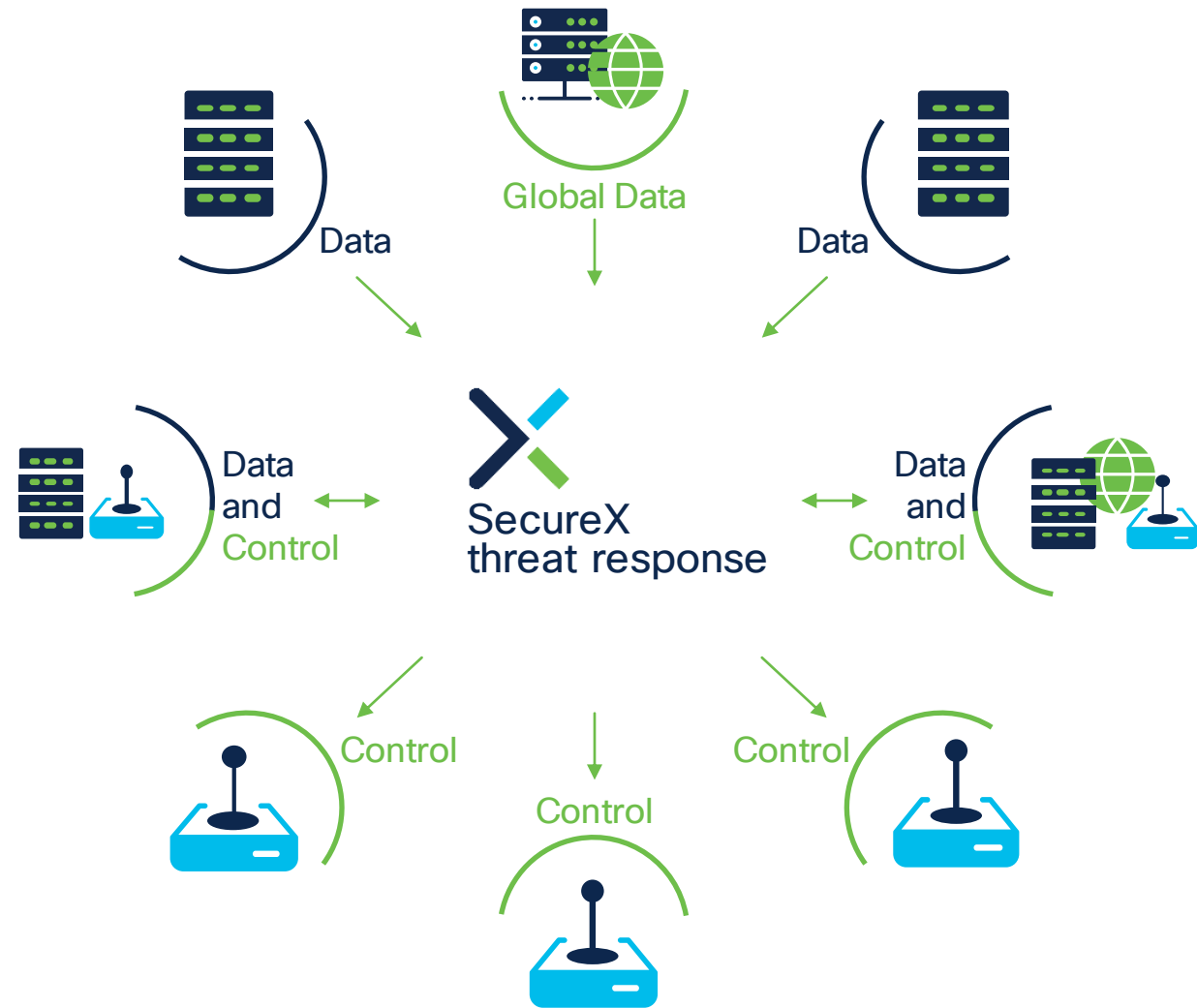
Visualize the impact of threats across your environment

Take immediate action to isolate hosts and block destinations or files

Automate workflows with approval actions for better collaboration

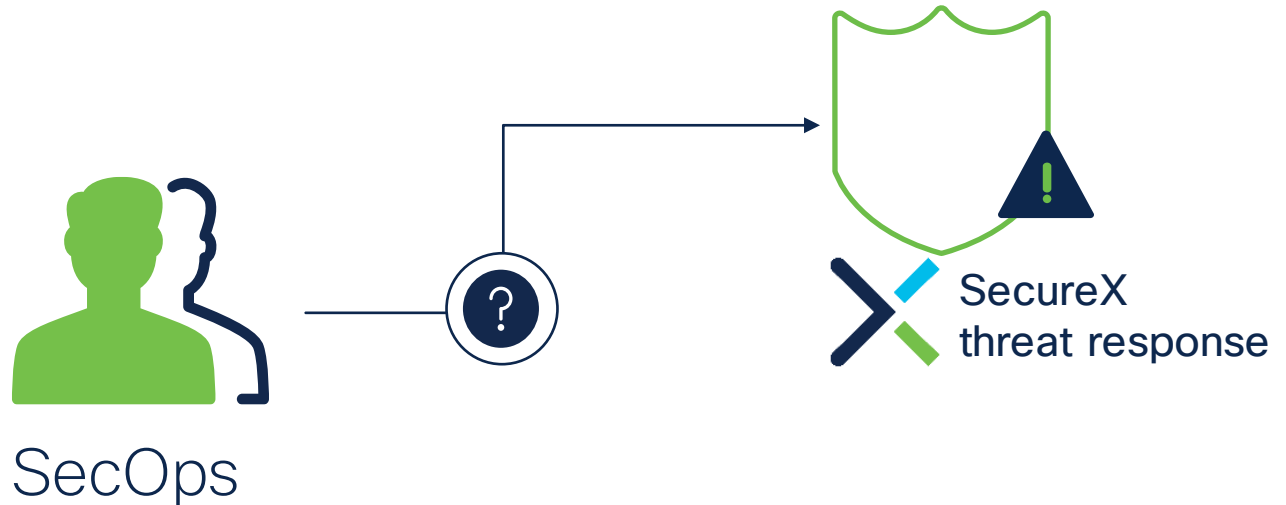


API aggregation at work



Enrichment

The process of consulting all the modules to find out what is known about the observable(s).



File Analysis



Domain reputation



IP reputation



Etc.



EPP logs



Firewall
(NGIPS)
logs



DNS
logs



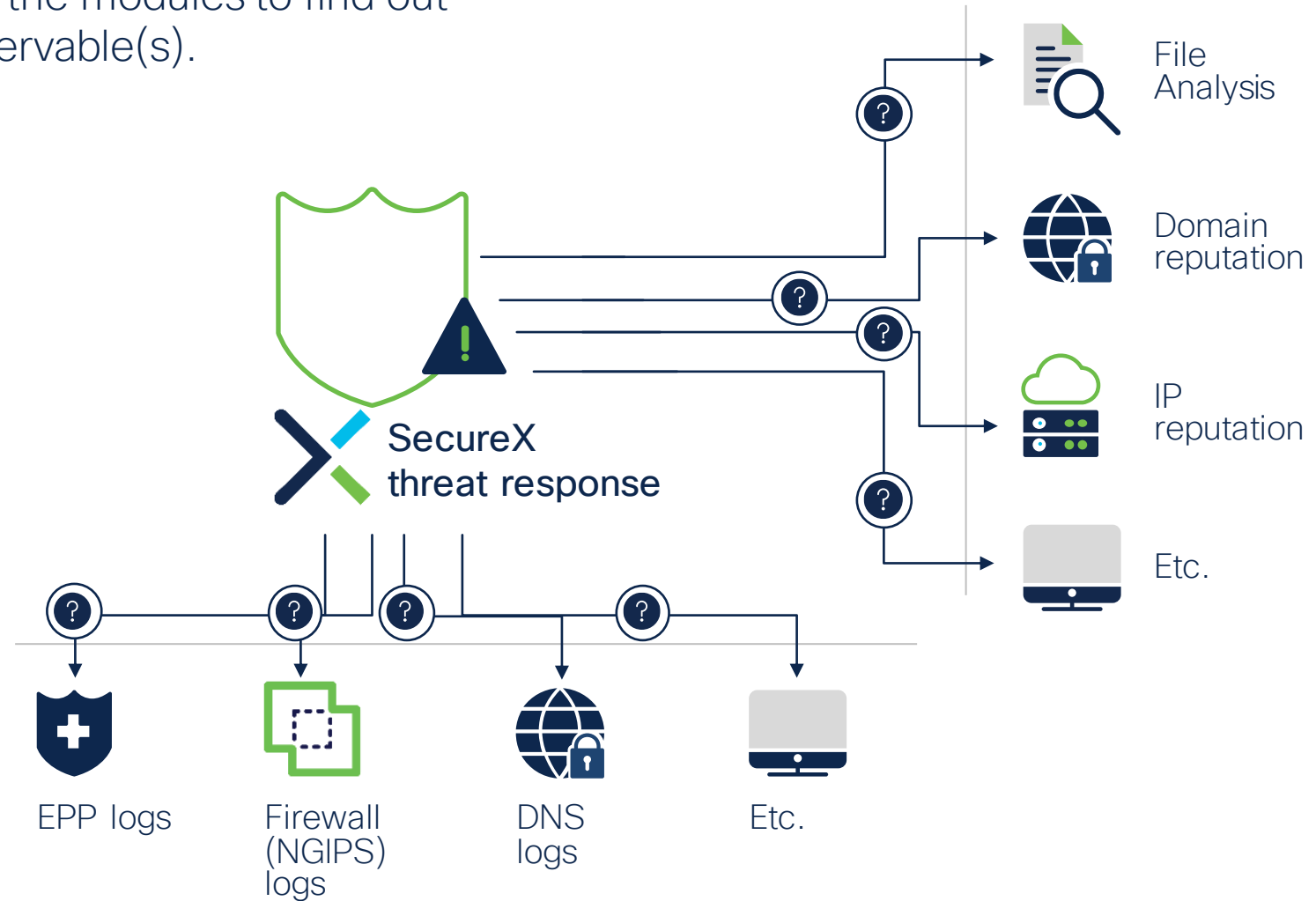
Etc.

Enrichment

The process of consulting all the modules to find out what is known about the observable(s).



SecOps

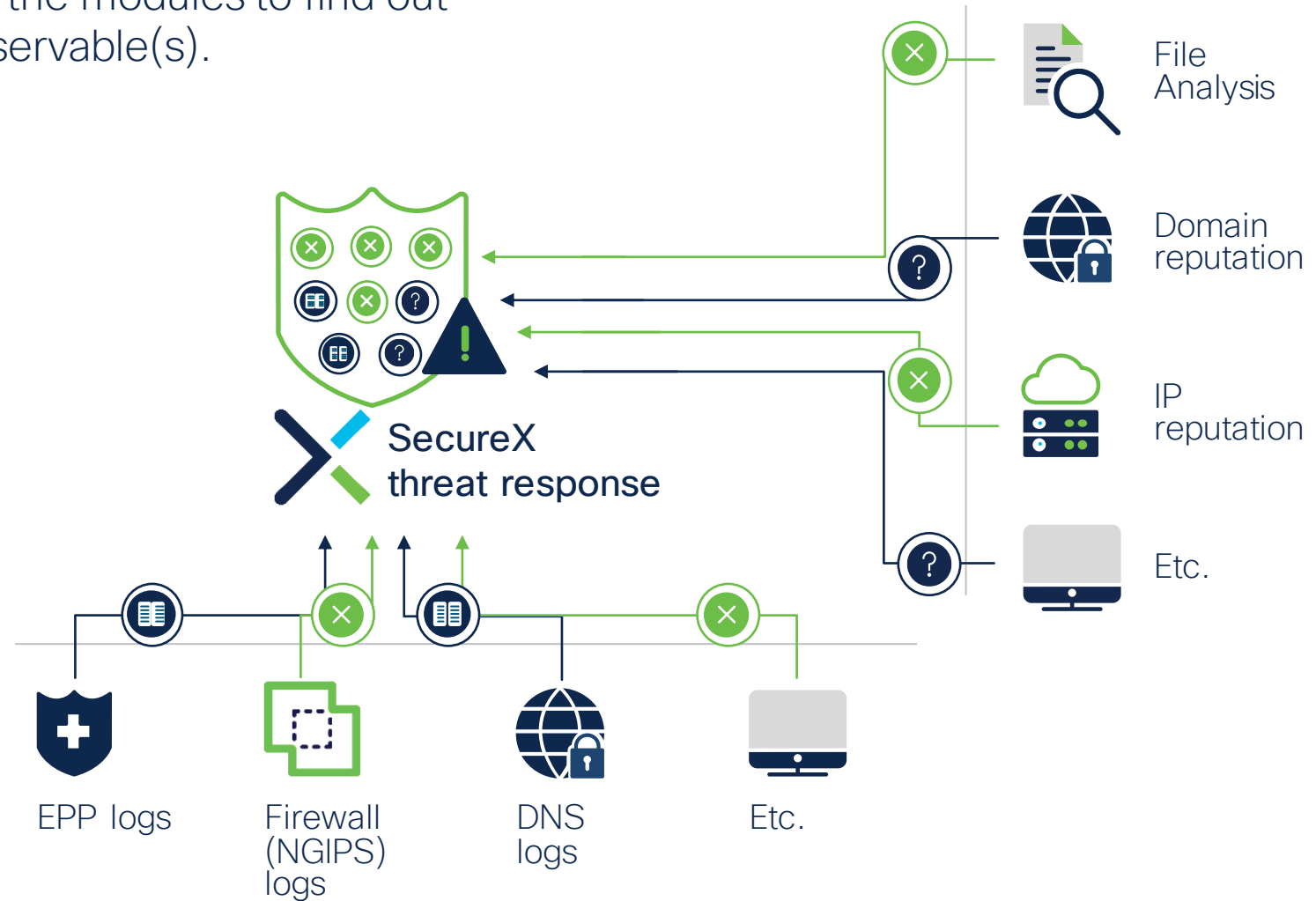


Enrichment

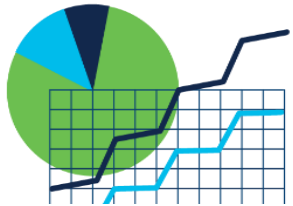
The process of consulting all the modules to find out what is known about the observable(s).



SecOps



Record-keeping: Snapshots, Casebooks, and Incidents

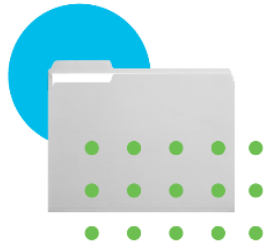


Snapshot

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 created

System triaged

User-managed

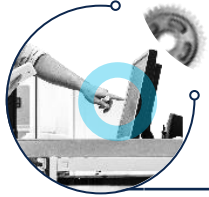
Metrics Bar

Investigation Timeline

Observable Details Panel

Category	Value
Category 1	Value 1
Category 2	Value 2
Category 3	Value 3
Category 4	Value 4
Category 5	Value 5
Category 6	Value 6
Category 7	Value 7
Category 8	Value 8
Category 9	Value 9
Category 10	Value 10

Automation vs orchestration



Automation

The ability to perform individual, repetitive tasks.

Why do customers want to automate?

“I need to deploy new services quicker; customer demand is drowning me.”

“I have repetitive tasks we are doing manually – I need to free up people to do other value-added work”

“I need a way to do more with less” (shrinking budgets)

“I have an aging workforce that I can’t replace with experienced network operators – I need to capture that IP into automated workflows.



Orchestration

The arrangement and coordination of automated and non-automated tasks, ultimately resulting in a consolidated process or workflow.

Why do customers want to orchestrate?



“I want to glue my systems together to achieve an end-to-end workflow that reflects our service life-cycle – request, implementation, sustainment, modification, decommissioning.”

“Vendors offer many management tools – some do provisioning of services, others do monitoring – why can’t they be tied together as a solution?”

Introducing SecureX orchestration

Process **automation**
made simple with a
no/low-code drag-
drop interface



Investigate

Reduce research and response times with workflows and playbooks that execute at machine speed



Automate

Eliminate repetitive tasks and reduce MTTR to increase productivity and focus on mission-critical projects



Integrate

Unique turnkey approach to quickly integrate with other systems and solutions to expand your toolbox



Scale

Automation that scales infinitely and never takes a day off, delivering the same SLA around the clock

SecureX orchestration

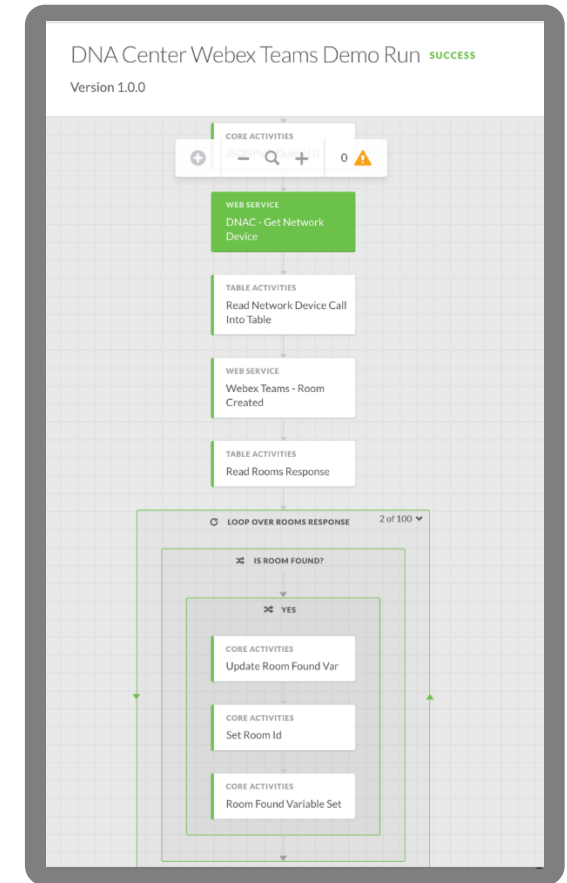
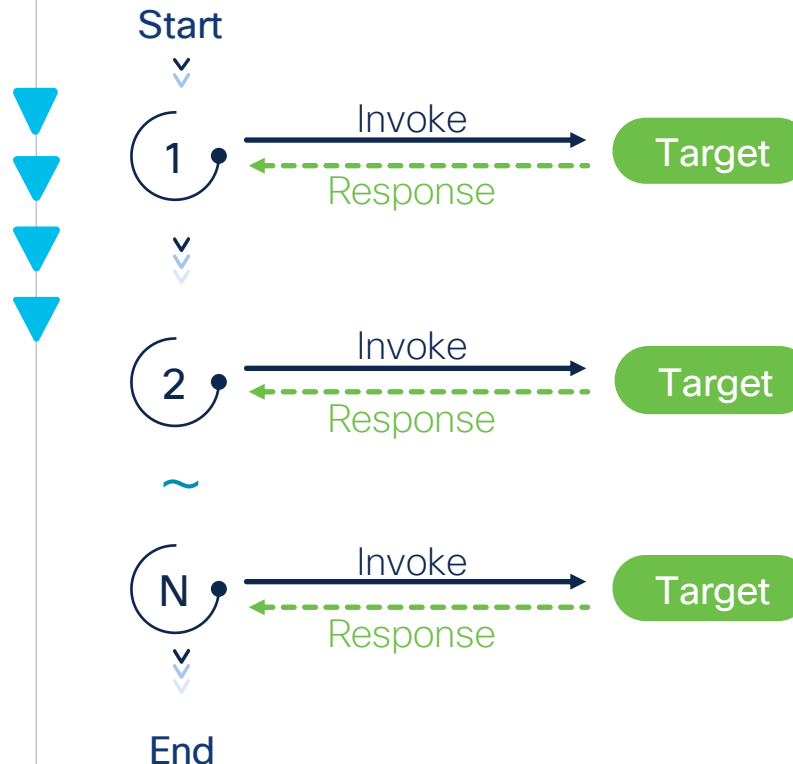
Cloud-Native, microservice architecture with “API-first” design

- Highly Performant, Scalable and Secure
- Reusable and Embeddable

Intuitive drag-drop UI with **visual workflows**

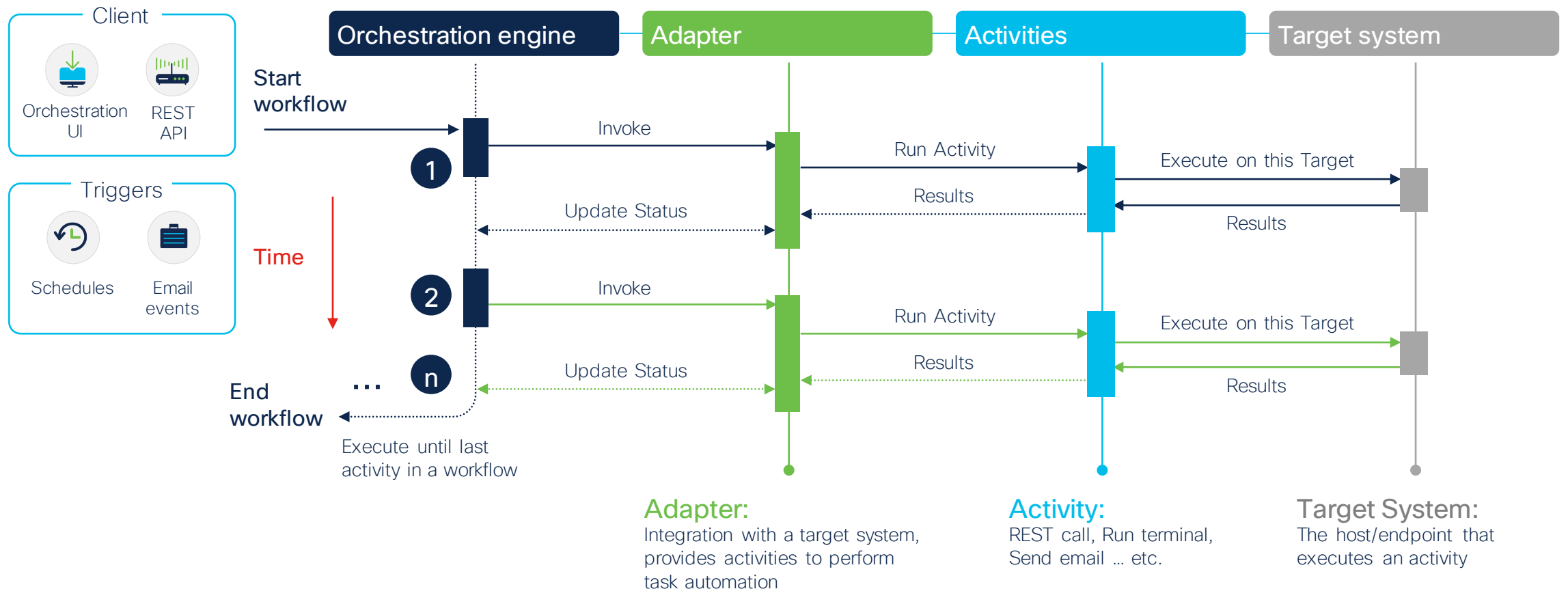
Combine flexible out of the box adapters to **create new integrations**

- Automate tasks according to schedules or external events such as email events



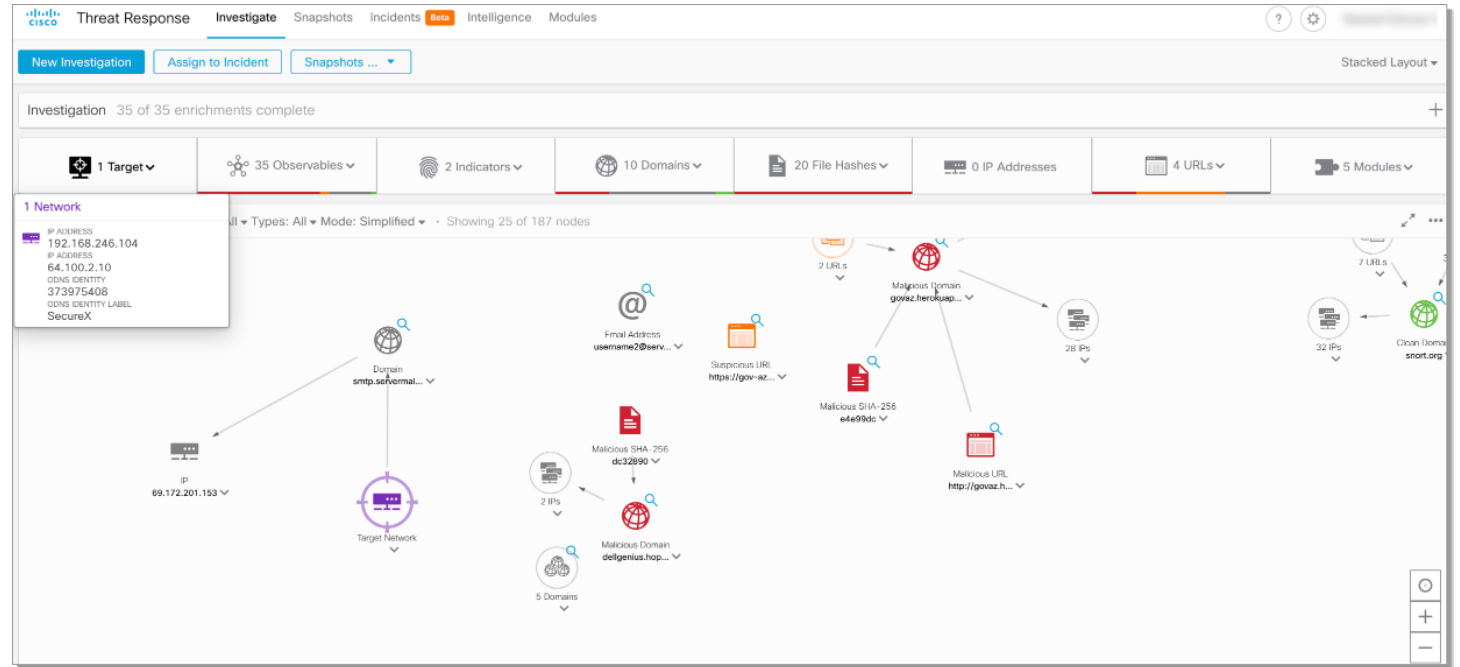
SecureX orchestration workflow sequence

The orchestration engine invokes **adapters** to execute **activities** on the **target systems**, which returns results and **status**, then the next step in the workflow begins.



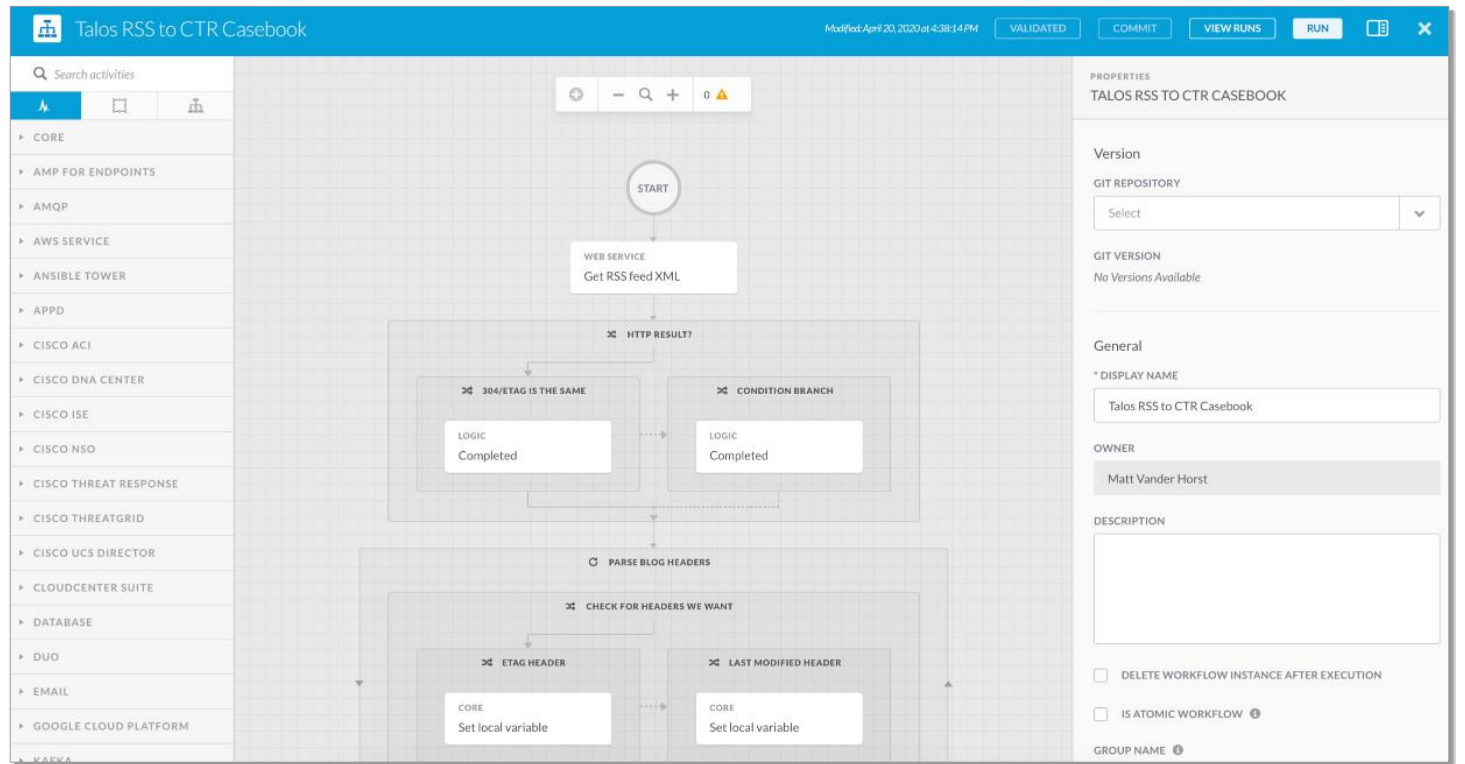
Threat hunting before SecureX

Customers receive an email notification of blog updates. Using the threat response browser extension, SOC personnel are conducting investigations to extract observables associated with Talos intelligence blogs.



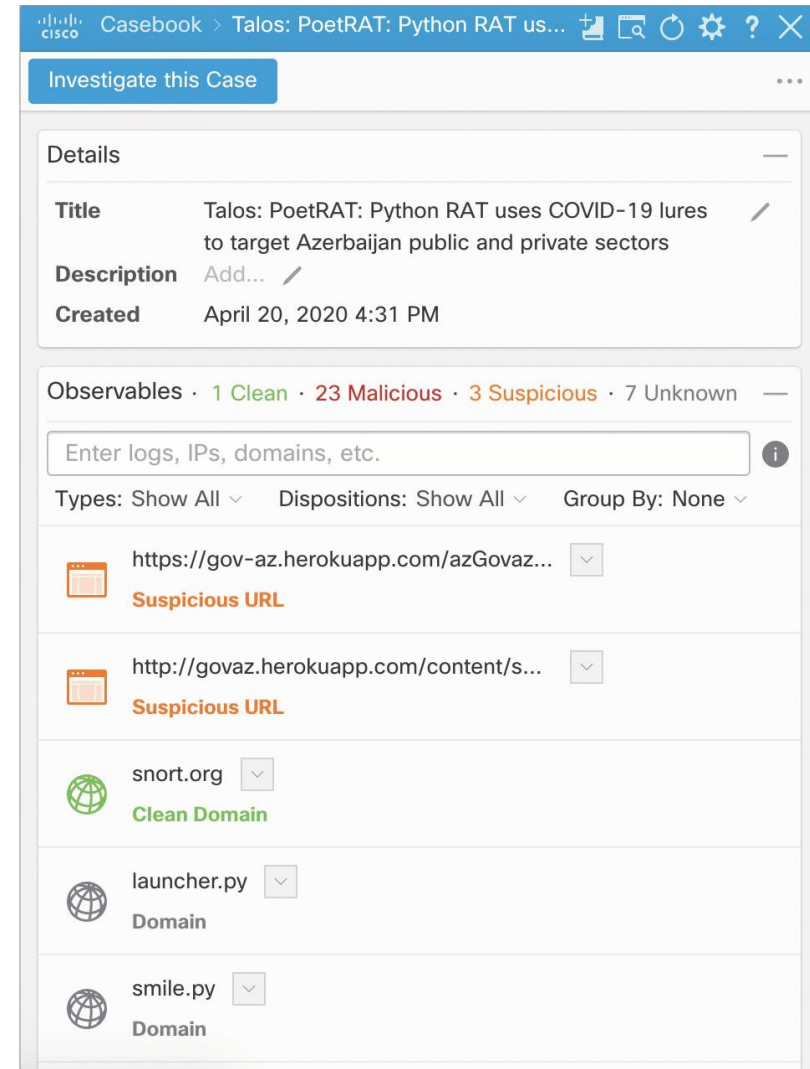
With SecureX

A playbook runs periodically to query the RSS feed for Talos intelligence blogs. Threat response casebooks are created with any observables. If a target is found based on a blog entry, the SOC is notified in a Webex Teams room.



With SecureX

A playbook runs periodically to query the RSS feed for Talos intelligence blogs. Threat response casebooks are created with any observables. If a target is found based on a blog entry, the SOC is notified in a Webex Teams room.



The screenshot displays the Cisco SecureX Casebook interface. At the top, the breadcrumb navigation shows 'Casebook > Talos: PoetRAT: Python RAT us...'. Below this is a blue button labeled 'Investigate this Case'. The main content area is divided into two sections: 'Details' and 'Observables'.






Details

- Title:** Talos: PoetRAT: Python RAT uses COVID-19 lures to target Azerbaijan public and private sectors
- Description:** Add...
- Created:** April 20, 2020 4:31 PM

Observables · 1 Clean · 23 Malicious · 3 Suspicious · 7 Unknown

Enter logs, IPs, domains, etc. ⓘ

Types: Show All ▾ Dispositions: Show All ▾ Group By: None ▾

	https://gov-az.herokuapp.com/azGovaz...	▾
	Suspicious URL	
	http://govaz.herokuapp.com/content/s...	▾
	Suspicious URL	
	snort.org	▾
	Clean Domain	
	launcher.py	▾
	Domain	
	smile.py	▾
	Domain	

With SecureX

A playbook runs periodically to query the RSS feed for Talos intelligence blogs. Threat response casebooks are created with any observables. If a target is found based on a blog entry, the SOC is notified in a Webex Teams room.



Insight 4:34 PM

A CTR casebook has been created for the blog post [PoetRAT: Python RAT uses COVID-19 lures to target Azerbaijan public and private sectors](#) from Talos. Here's a summary of related sightings:

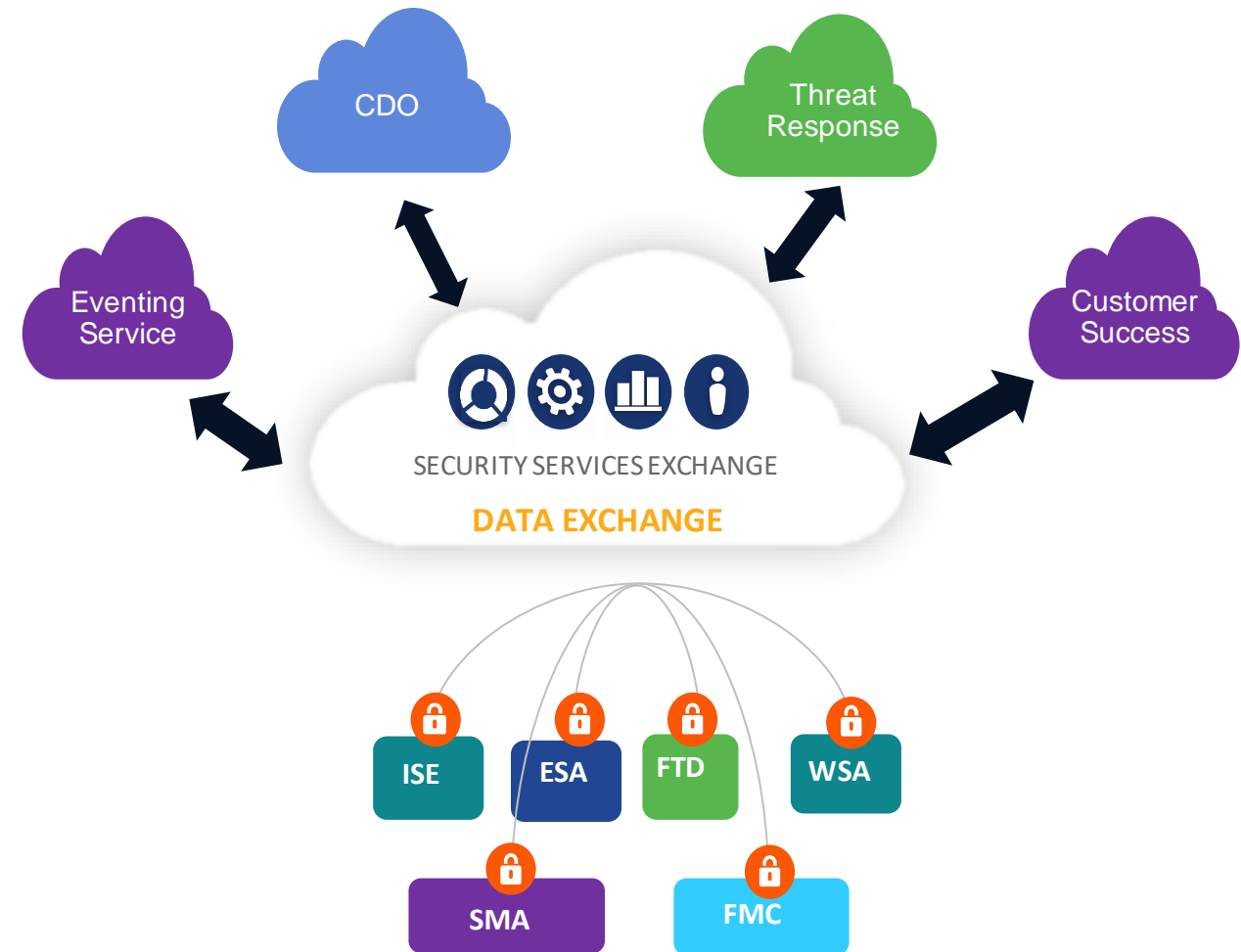
Details for module SecureX Umbrella

```
1 | Description: DNS request for 'smtp.servermail.com' made by 'SecureX' (Sites)
2 | Targets:
3 | > Type: network, odns_identity=373975408, odns_identity_label=SecureX, ip=192.168.246.104, ip=64.100.2.10
4 | Description: DNS request for 'smtp.servermail.com' made by 'SecureX' (Sites)
5 | Targets:
6 | > Type: network, odns_identity=373975408, odns_identity_label=SecureX, ip=192.168.246.104, ip=64.100.2.10
```

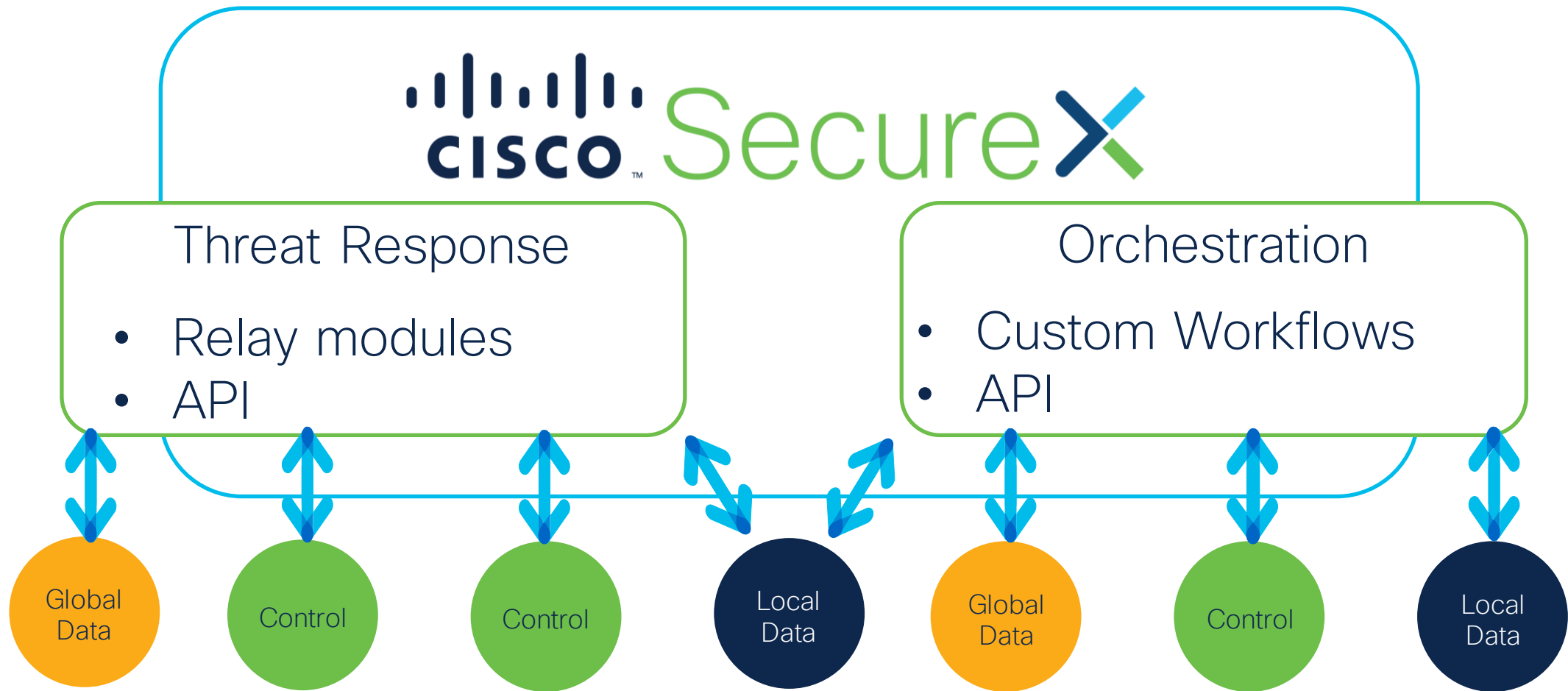
[NEW MESSAGES](#)

Why do I need SSE?

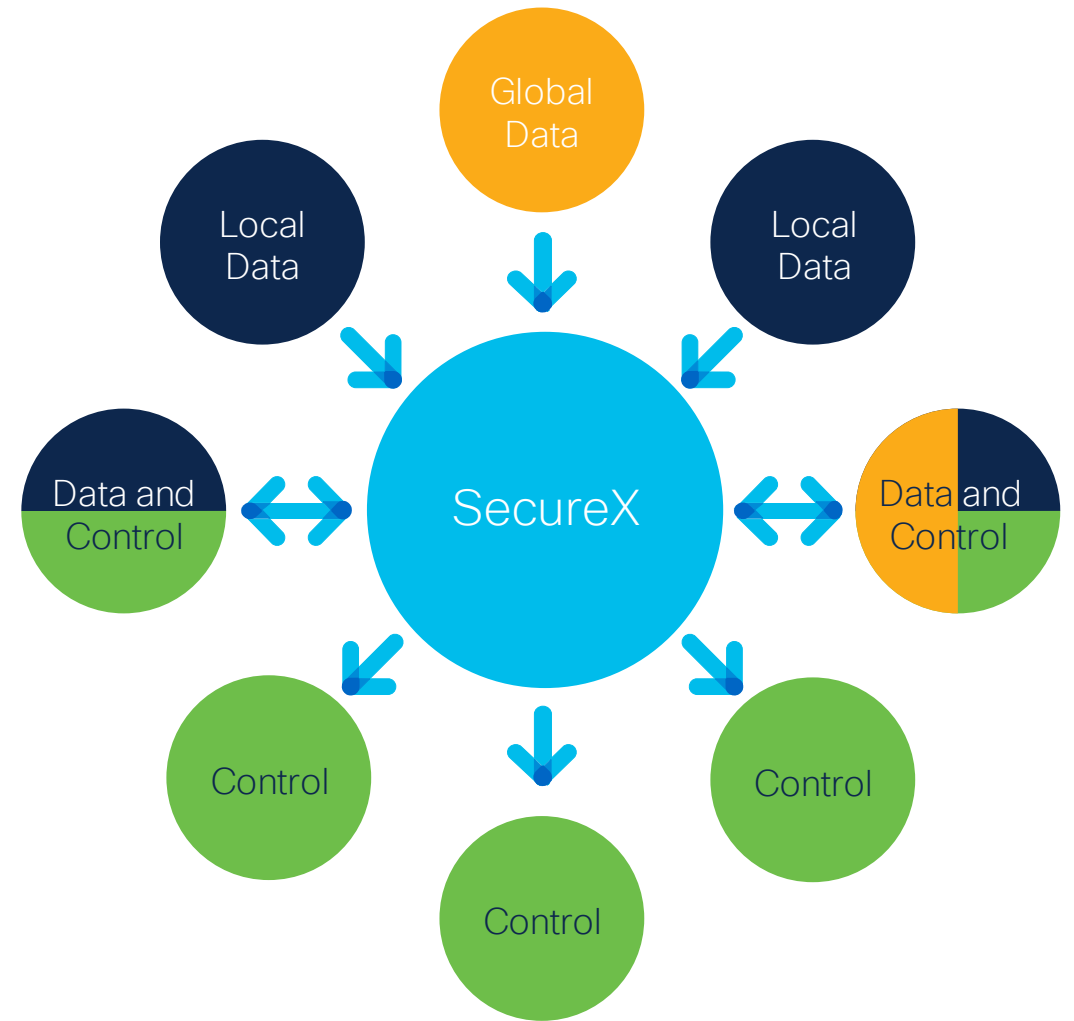
- Security Services Exchange is required to receive / enumerate events from on-premises infrastructure.
- These events can be consumed by SecureX, Threat Response, Security Analytics and Logging, etc.
- SSE is not needed for SecureX if only integrating Cloud systems (Umbrella, SWC, AMP, etc).



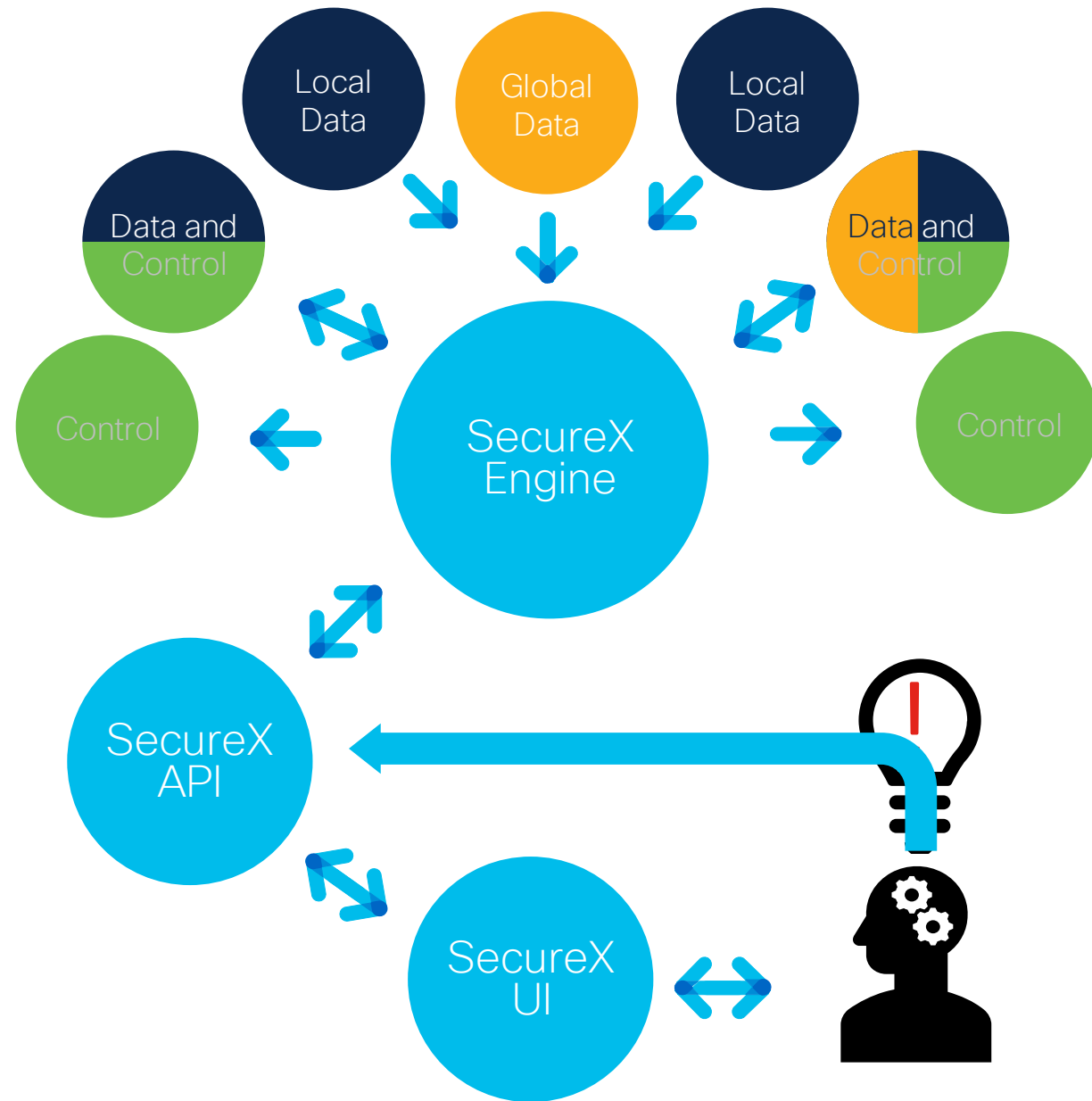
Hooks and Integration Points

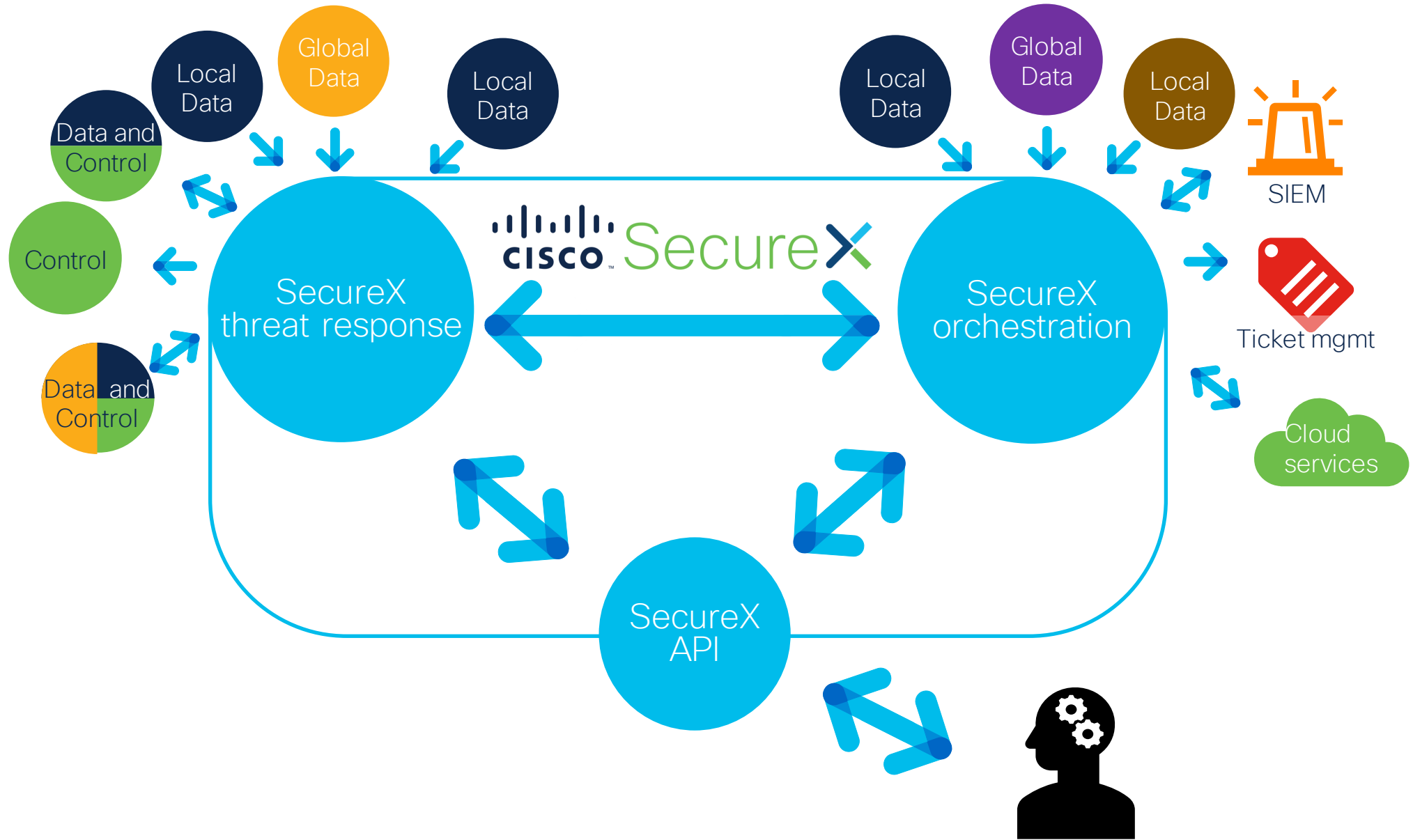


API aggregation at work



API relaying at work

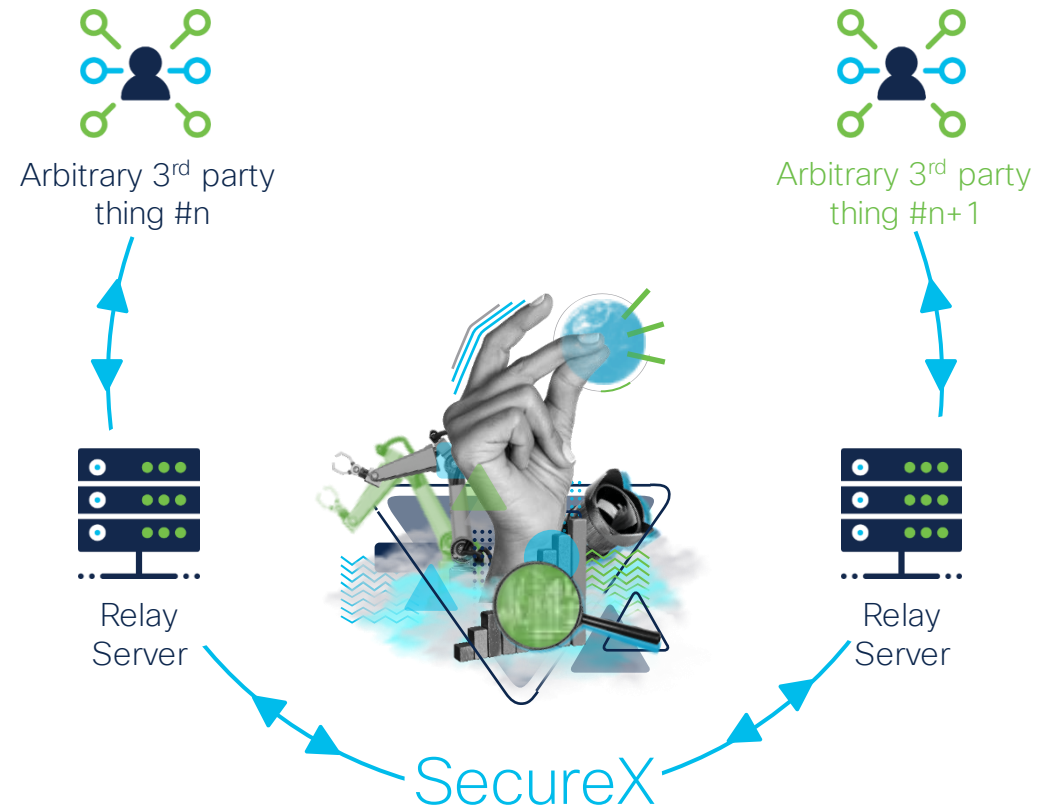






Relay modules

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



Adapters

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

I'm a Cisco Secure customer with SecureX threat response

My team can:



Answer questions faster about observables.



Block and unblock domains from threat response.



Block and unblock file executions from threat response



Isolate Hosts



Hunt for an observable associated with a known actor and immediately see organizational impact.



Save a point in time **snapshot** of our investigations for further analysis.



Document our analysis in a cloud casebook from all integrated or web-accessible tools, via an API.



Integrate threat response easily into existing processes and custom tools



Store our own threat intel in threat response private intel for use in investigations



See Incidents all in one place

Proven platform
with **11,000+**
customers
unlocking new
value today with
**SecureX threat
response**

98%

found the unified
view enables
rapid threat
response

95%

say that our security
platform helps them
take action and
remediate

91%

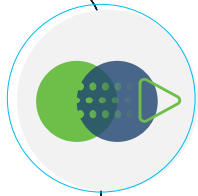
find that our
security platform
helps their teams
collaborate more

*“I am able to visualize threats within my environment and take action in **half the time** it used to take me.”*

*—Security Engineer,
Large Enterprise Banking Company*

In Summary...

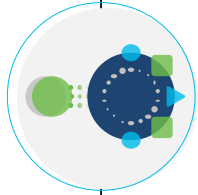
Unlock new value from your current investments



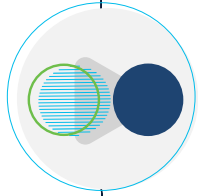
From partial awareness to **complete** and **actionable insights**



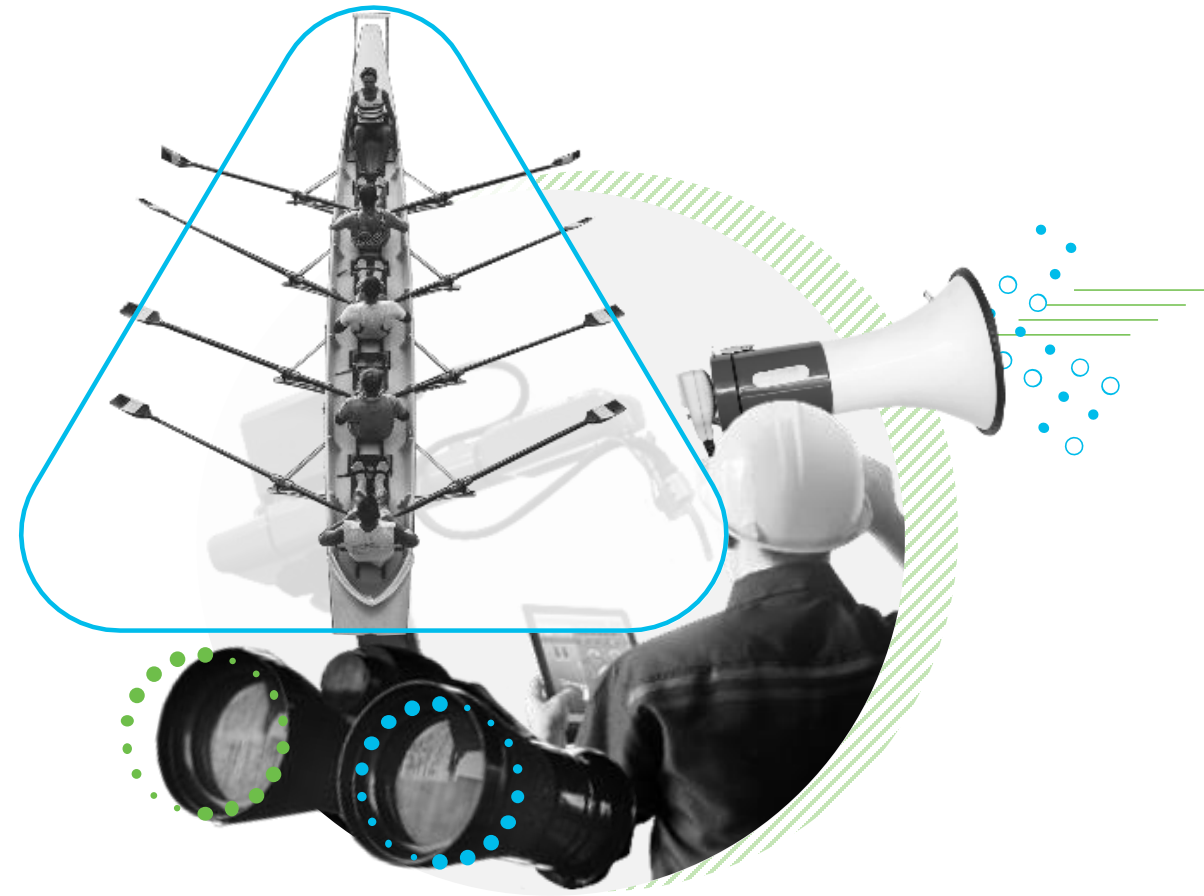
From inefficient workflows to the **strength of automation**



From siloed product usage to **shared context**



From complexity to **simplicity**





DEMO Time



THANK YOU

Resources

Integration documentation

cs.co/SecureX_integration_workflows

Cisco SecureX Integration Workflows

Docs » Cisco SecureX Integration Workflows

Cisco SecureX Integration Workflows

threat response

- 1. Getting Started
 - 1.1. Global API Endpoint URLs
 - 1.2. Create API Client in Threat Response UI
 - 1.3. Scopes
 - 1.4. Using API Client Credentials to Get Access Token
 - 1.5. Authentication
 - 1.6. Rate Limits
 - 1.7. API Endpoints
- 2. Pivot into threat response
 - 2.1. Launch Investigation From URL
 - 2.2. Launch Investigation From a Newly Created Casebook
 - 2.3. Launch Investigation From an Existing Casebook
- 3. Queries
 - 3.1. Get Verdicts for an Observable
 - 3.2. Contextualize an Observable
- 4. Refer "Pivot" Actions
 - 4.1. Extract Observables
 - 4.2. Refer Observables
 - 4.3. Use Cases
- 5. Response Actions
 - 5.1. Extract Observables
 - 5.2. Respond Observable
- 6. Relay API
 - 6.1. Requirements
 - 6.2. Good Practices When Possible

Orchestration

- 1. Getting Started
- 2. Workflows
 - 2.1. Workflows
 - 2.2. Run

UI docs and proto tools

Deliberate /lrsh/lrsh-enrich/observables

POST

Parameters

Name

Observable

Execute

Responses

Github

github.com/CiscoSecurity

Cisco Security

Collection of example scripts for Cisco Security APIs

Repositories

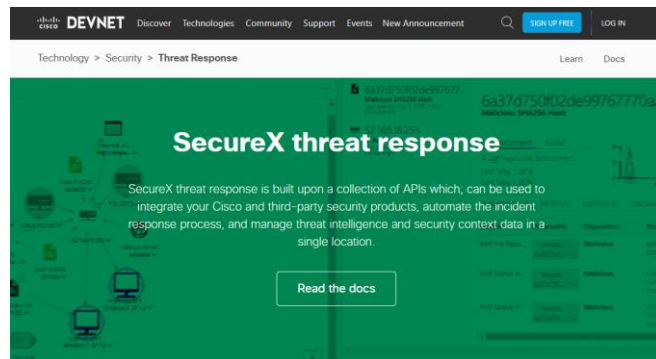
Pinned repositories

- wiki
- tr-05-gigamon-threatinsight
- tr-05-serverless-farsight-dnsdb
- tr-05-serverless-shodan

SecureX threat response Resources

Devnet

developer.cisco.com/threat-response/

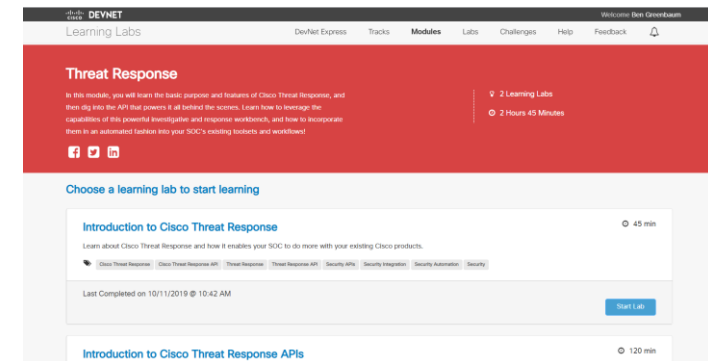


What can you do with SecureX threat response APIs?



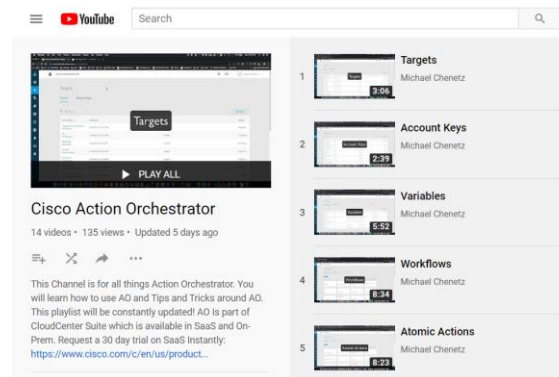
Devnet Learning Labs

[learninglabs.cisco.com/labs/tags/Cisco Threat Response](https://learninglabs.cisco.com/labs/tags/Cisco%20Threat%20Response)



SecureX orchestration Resources

Action Orchestrator videos: cs.co/AOvideos



Action Orchestrator docs

<https://docs.cloudmgmt.cisco.com/display/ACTIONORCHESTRATOR51>

