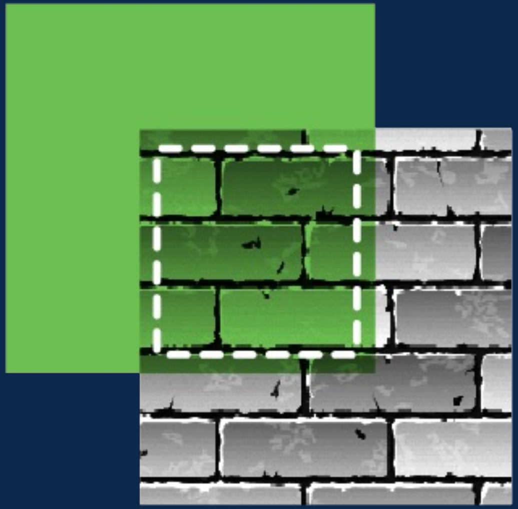
CISCO
SECURE

CISCO The bridge to possible

Cisco XDR

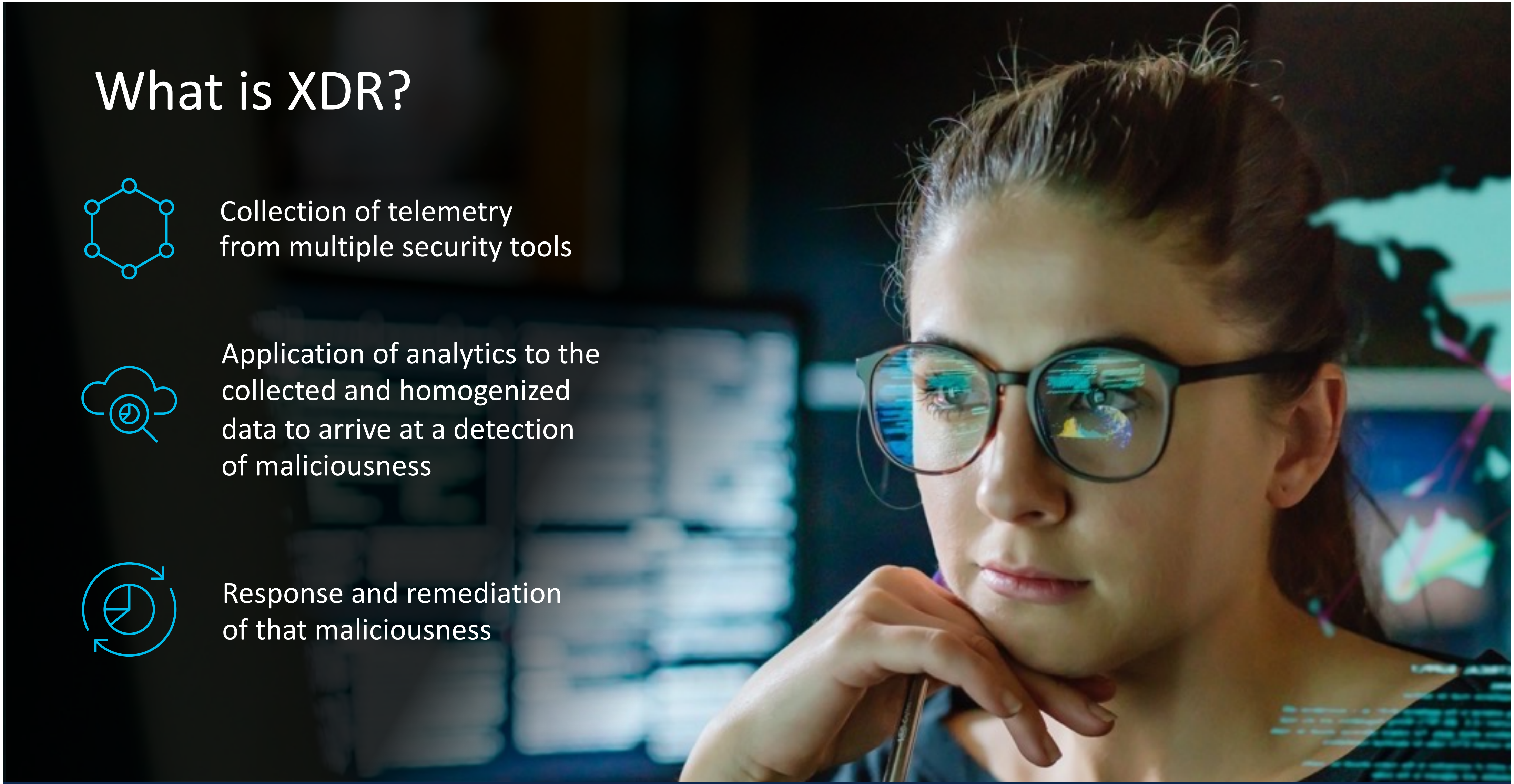
Tech Club



Jiří Tesař
TSA Security, jitesar@cisco.com

3.10.2023

Intro to XDR



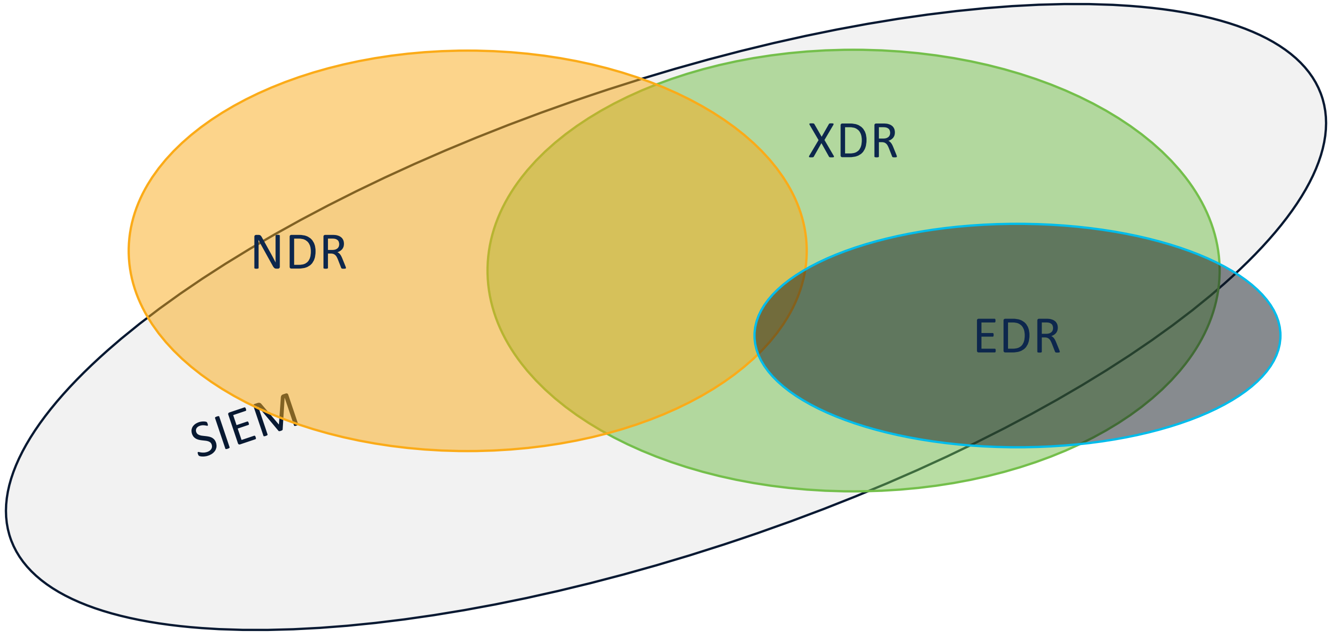
What is XDR?

Collection of telemetry from multiple security tools

Application of analytics to the collected and homogenized data to arrive at a detection of maliciousness

Response and remediation of that maliciousness

Is XDR different than all the other things?



Shared Use cases:

Threat Detection
Threat Hunting
Forensics
Response

Telemetry data source importance

The top six data sources that customers believe are essential for an XDR are

Endpoint, Network, Firewall, Identity, Email, and DNS

	Essential	
	Count	Share
Endpoint	255	85.0%
Network	226	75.3%
Firewall	207	69.0%
Identity	191	63.7%
Email	179	59.7%
DNS	140	46.7%
Public Cloud	137	45.7%
Non-Security Sources	36	12.0%

Cisco Secure Client

Cisco / Meraki (Networking)

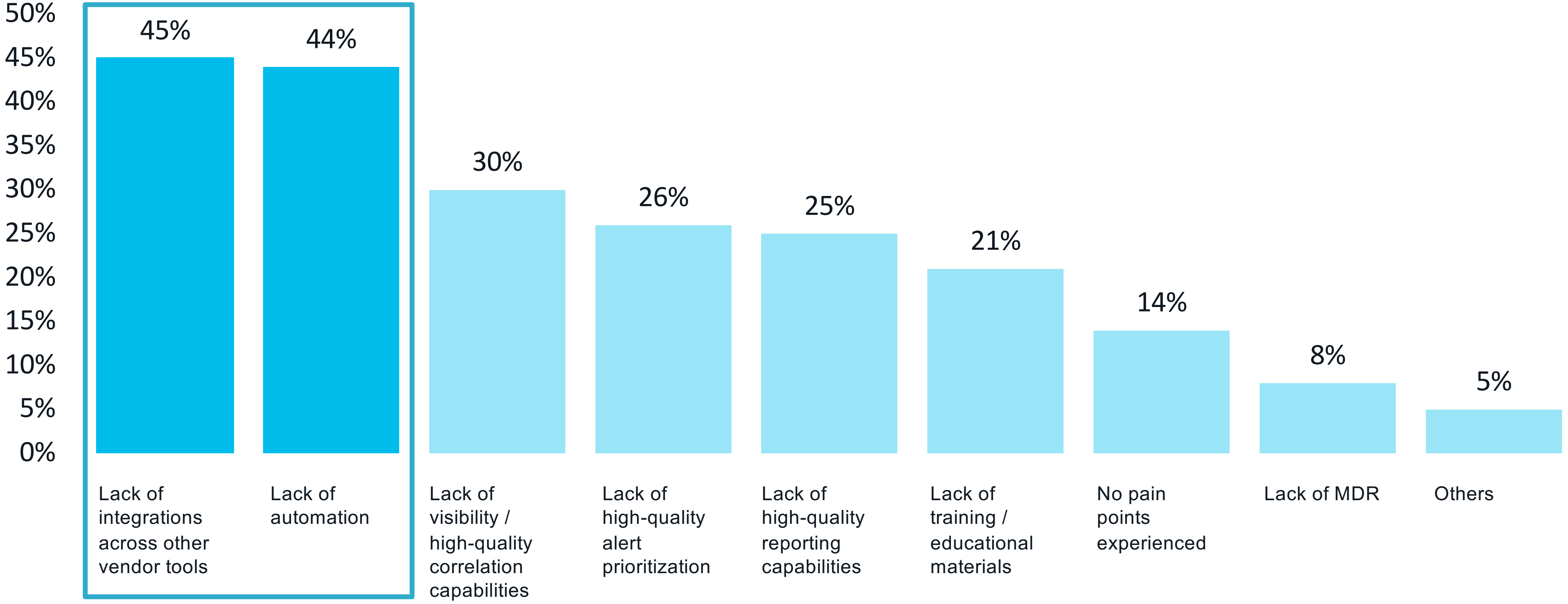
Firewall Threat Defense (FTD)

Duo

Email Threat Defense (ETD)

Umbrella

Lack of integration and automation are the most widespread pain points for existing XDR solutions



An XDR solution should confidently tackle 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

The Cisco approach to XDR

Detect more, act faster, elevate productivity, build resilience

Detect the most sophisticated threats

- Multi-vector detection: network, cloud, endpoint, email, and more
- Enriched incidents with asset insights, threat intel
- Optimized for multi-vendor environments

Act on what ***truly*** matters, faster

- Prioritize threats by greatest material risk
- Unified context to streamline investigations
- Evidence-backed recommendations

Elevate productivity

- Focus on what matters and filter out the noise
- Boost limited resources for maximum value
- Automate tasks and focus on, strategic tasks

Build resilience

- Close security gaps
- Anticipate what's next through actionable intel
- Get stronger, everyday with continuous, quantifiable improvement

Simplify with Cisco XDR

Cisco

Network

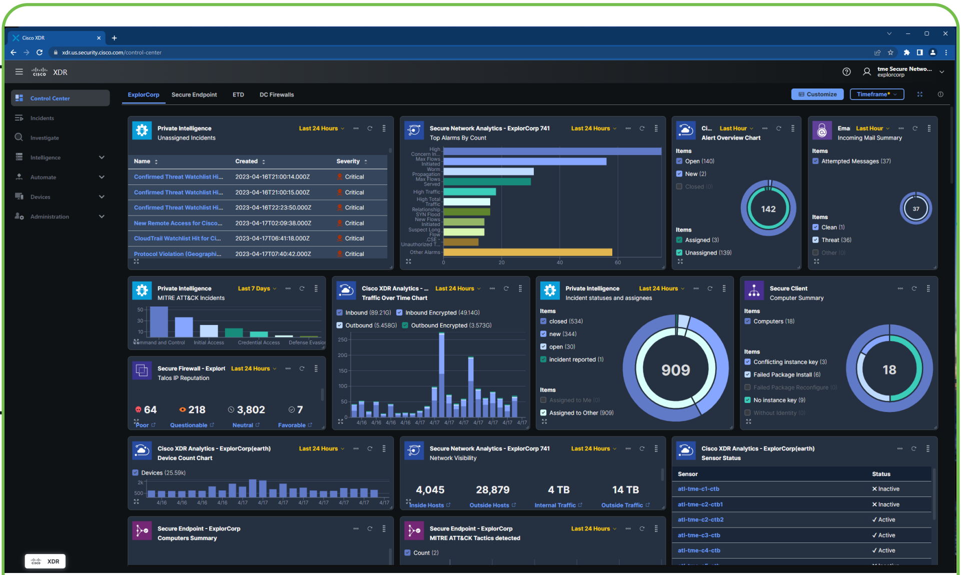
Endpoint

Email

Cloud

Applications

Identity



Name	Created	Severity
Confirmed Threat Watchlist Hi...	2023-04-16T21:00:14.000Z	Critical
Confirmed Threat Watchlist Hi...	2023-04-16T21:00:15.000Z	Critical
Confirmed Threat Watchlist Hi...	2023-04-16T22:23:50.000Z	Critical
New Remote Access for Cisco...	2023-04-17T02:09:38.000Z	Critical
CloudTrail Watchlist Hit for Ci...	2023-04-17T06:41:18.000Z	Critical
Protocol Violation (Geographi...	2023-04-17T07:40:42.000Z	Critical

Sensor	Status
atl-tme-c1-ctb	✕ Inactive
atl-tme-c2-ctb1	✕ Inactive
atl-tme-c2-ctb2	✓ Active
atl-tme-c3-ctb	✓ Active
atl-tme-c4-ctb	✓ Active

Built on the Cisco security platform

Open and extensible

Clear prioritization

Automation and response guidance

Streamlined investigations

Your Infrastructure

3^{rd} party tools

Intelligence

010110
110010
001011

Others

SIEM/SOAR

SecOps Analyst

CISO

Incident responder

Your SOC

An XDR is an expression of business needs

1 **Detect Sooner**

Where are we most exposed to risk? How good are we at detecting attacks early?

2 **Prioritize by Impact**

Are we prioritizing the attacks that represent the largest material impacts to our business?

3 **Reduce Investigation Time**

How quickly are we able to understand the full scope and entry vectors of attacks?

4 **Accelerate Response**

How fast can we confidently respond? How much can SecOps automate? Are we improving our time to respond?

5 **Extend Asset Context**

Do we have full visibility into all our assets? Can we reliably identify a device and who uses it?

XDR outcomes and components

Detect Sooner	Prioritize by Impact	Reduce InvestigationTime	Accelerate Response	Extend Asset Context
Integrations	Correlated Events	Investigation	Prebuilt Playbooks	Integrations
Intelligence		Incident Manager		Account and Device Correlation
Machine Learning	Asset Insights	Threat Hunting	Automated Workflows	
		Automated Enrichment		

Analytics
Detections based on raw telemetry

Incidents
Security alerts, correlated, prioritized and enriched

Integrations
built-in, pre-built or custom

Investigate
is at the core of the platform

Automation
drag-drop GUI for no/low code

Devices
device inventory with the contextual awareness

Outcomes

Detect sooner

- Leverage integrations for faster detection and response
  - Now including CrowdStrike and SentinelOne
- Use intelligence from multiple integrated products
- Correlate alerts to detect slow or hidden attacks

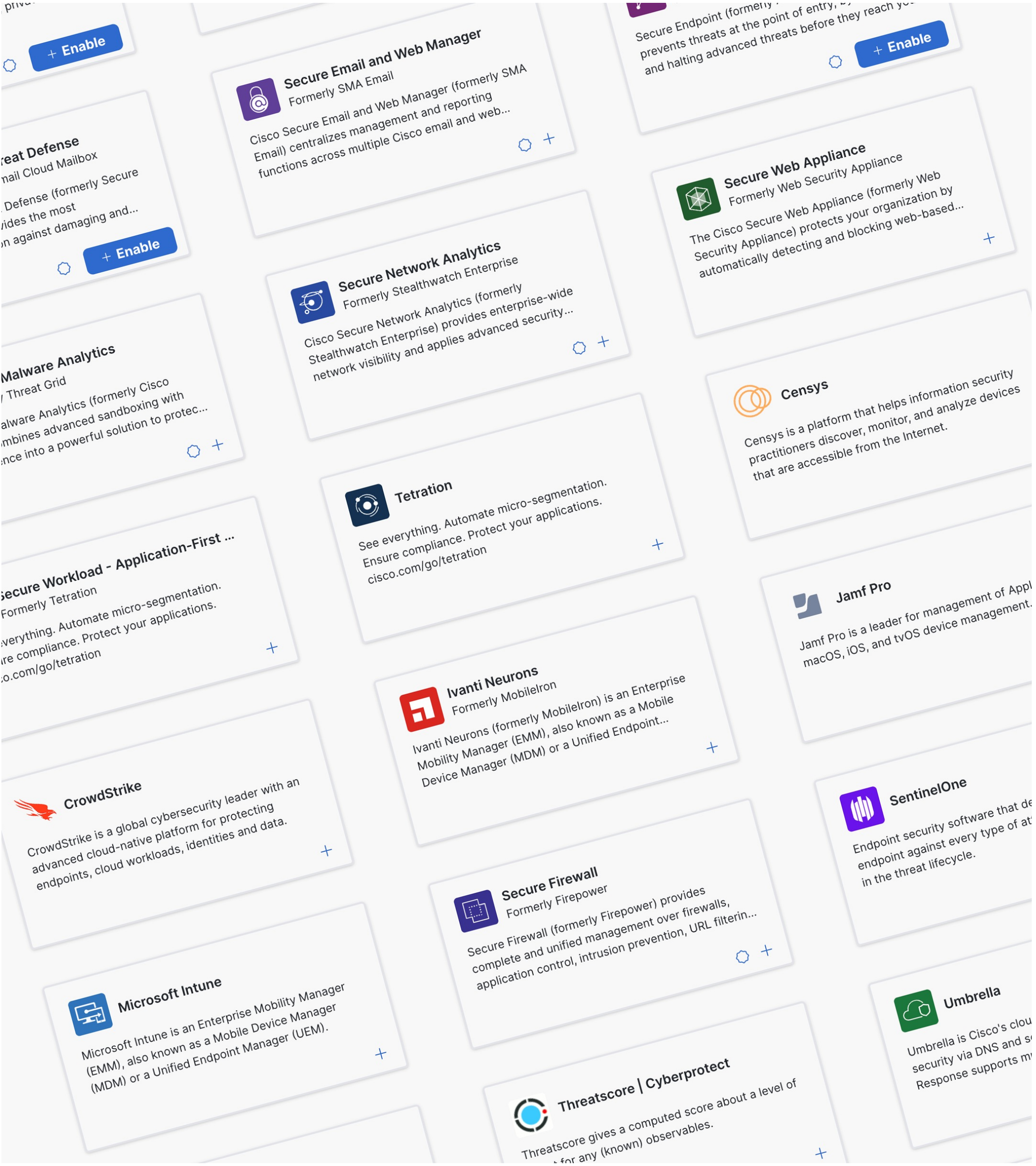
1 Detect Sooner

Prioritize by Impact 2

3 Reduce Investigation Time

Accelerate Response 4

5 Extend Asset Context


priva...

...eat Defense
...nail Cloud Mailbox
...Defense (formerly Secure ...vides the most ...n against damaging and...

Malware Analytics
...Threat Grid
...alware Analytics (formerly Cisco ...mbines advanced sandboxing with ...nce into a powerful solution to protec...

...ecure Workload - Application-First ...
Formerly Tetration
...verything. Automate micro-segmentation. ...re compliance. Protect your applications. ...o.com/go/tetration

CrowdStrike
CrowdStrike is a global cybersecurity leader with an advanced cloud-native platform for protecting endpoints, cloud workloads, identities and data.

Microsoft Intune
Microsoft Intune is an Enterprise Mobility Manager (EMM), also known as a Mobile Device Manager (MDM) or a Unified Endpoint Manager (UEM).

Secure Email and Web Manager
Formerly SMA Email
Cisco Secure Email and Web Manager (formerly SMA Email) centralizes management and reporting functions across multiple Cisco email and web...

Secure Network Analytics
Formerly Stealthwatch Enterprise
Cisco Secure Network Analytics (formerly Stealthwatch Enterprise) provides enterprise-wide network visibility and applies advanced security...

Tetration
See everything. Automate micro-segmentation. Ensure compliance. Protect your applications. cisco.com/go/tetration

Ivanti Neurons
Formerly MobileIron
Ivanti Neurons (formerly MobileIron) is an Enterprise Mobility Manager (EMM), also known as a Mobile Device Manager (MDM) or a Unified Endpoint Device Manager (MDM) or a Unified Endpoint...

Secure Firewall
Formerly Firepower
Secure Firewall (formerly Firepower) provides complete and unified management over firewalls, application control, intrusion prevention, URL filterin...

Threatscore | Cyberprotect
Threatscore gives a computed score about a level of ... for any (known) observables.

Secure Endpoint (formerly ... prevents threats at the point of entry, b... and halting advanced threats before they reach yo...

Secure Web Appliance
Formerly Web Security Appliance
The Cisco Secure Web Appliance (formerly Web Security Appliance) protects your organization by automatically detecting and blocking web-based...

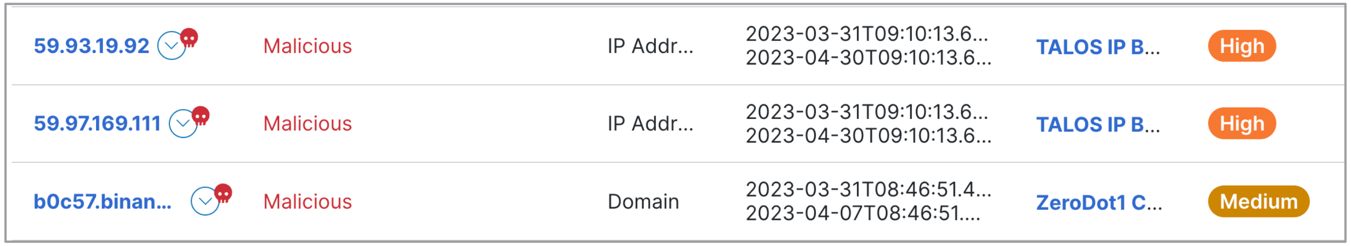
Censys
Censys is a platform that helps information security practitioners discover, monitor, and analyze devices that are accessible from the Internet.

Jamf Pro
Jamf Pro is a leader for management of Appl... macOS, iOS, and tvOS device management.

SentinelOne
Endpoint security software that de... endpoint against every type of at... in the threat lifecycle.

Umbrella
Umbrella is Cisco's clou... security via DNS and s... Response supports m...

Enhanced detections with diverse intelligence



59.93.19.92	Malicious	IP Addr...	2023-03-31T09:10:13.6... 2023-04-30T09:10:13.6...	TALOS IP B...	High
59.97.169.111	Malicious	IP Addr...	2023-03-31T09:10:13.6... 2023-04-30T09:10:13.6...	TALOS IP B...	High
b0c57.binan...	Malicious	Domain	2023-03-31T08:46:51.4... 2023-04-07T08:46:51....	ZeroDot1 C...	Medium

TALOS

VIRUSTOTAL

Pulsedive

Others…

- Use public and private sources of intelligence to achieve better threat identification
- Create and customize your own feeds based on your environment and needs

Judgements

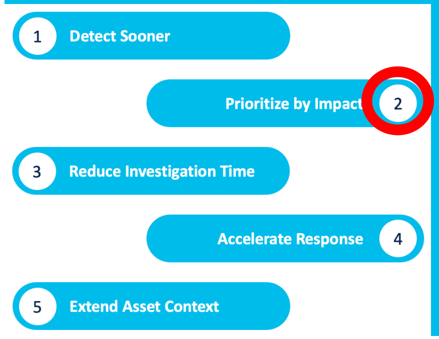
Indicators

Feeds

Events

Prioritize by impact

- Single view for incidents from multiple sources
- Enhanced incident view focused on the most critical incidents
- Incidents prioritized by business impact and asset value



1 Detect Sooner

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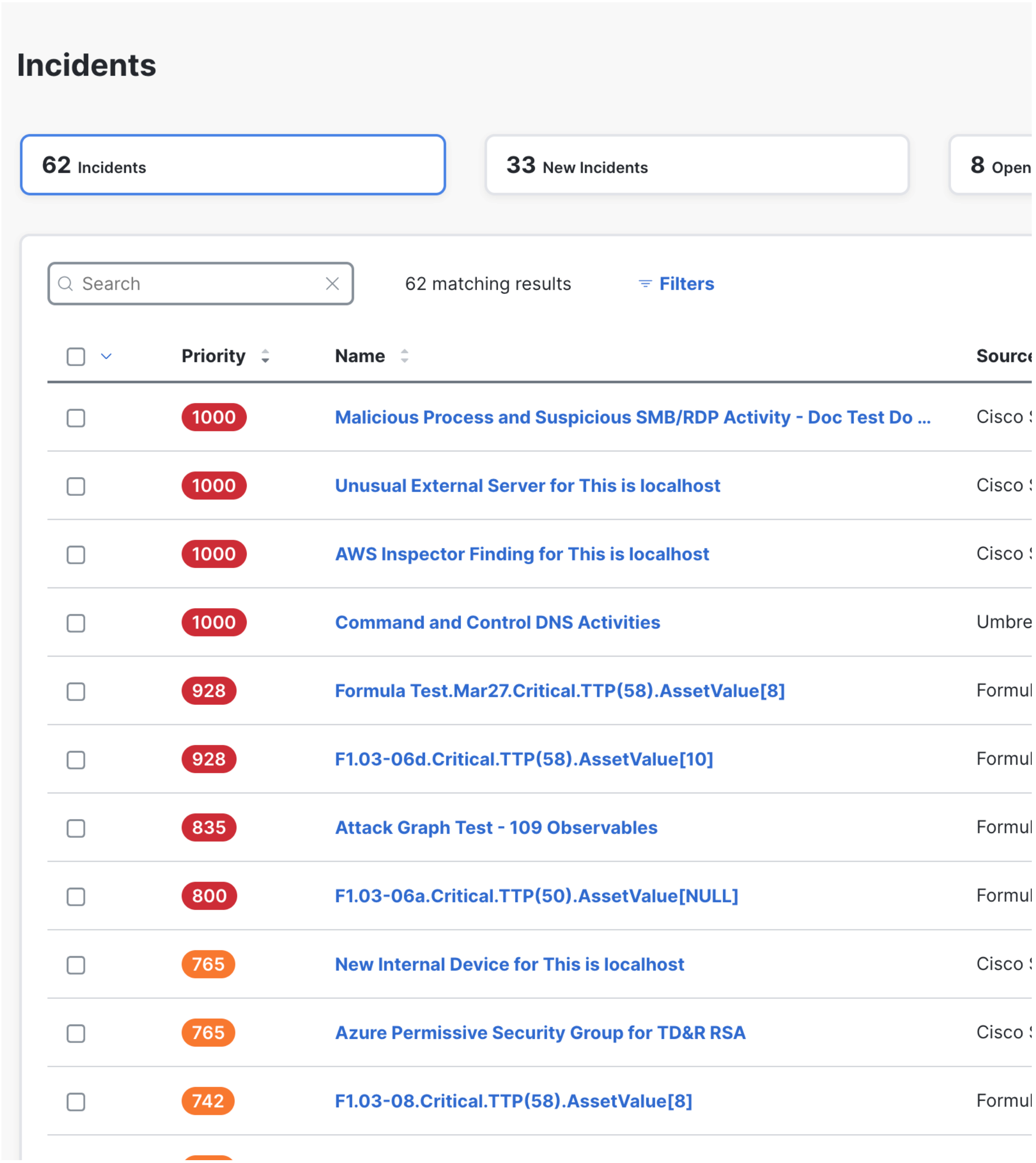


Incidents

62 Incidents | 33 New Incidents | 8 Open

Search

62 matching results

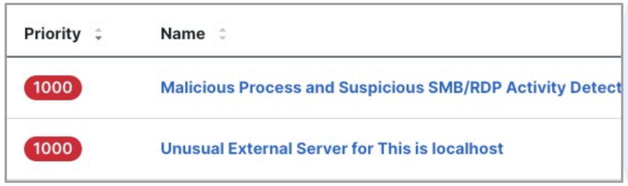
Filters

□	Priority	Name	Source
□	1000	Malicious Process and Suspicious SMB/RDP Activity - Doc Test Do ...	Cisco
□	1000	Unusual External Server for This is localhost	Cisco
□	1000	AWS Inspector Finding for This is localhost	Cisco
□	1000	Command and Control DNS Activities	Umbre
□	928	Formula Test.Mar27.Critical.TTP(58).AssetValue[8]	Formul
□	928	F1.03-06d.Critical.TTP(58).AssetValue[10]	Formul
□	835	Attack Graph Test - 109 Observables	Formul
□	800	F1.03-06a.Critical.TTP(50).AssetValue[NULL]	Formul
□	765	New Internal Device for This is localhost	Cisco
□	765	Azure Permissive Security Group for TD&R RSA	Cisco
□	742	F1.03-08.Critical.TTP(58).AssetValue[8]	Formul

Walk through incidents step by step

Progressive disclosure

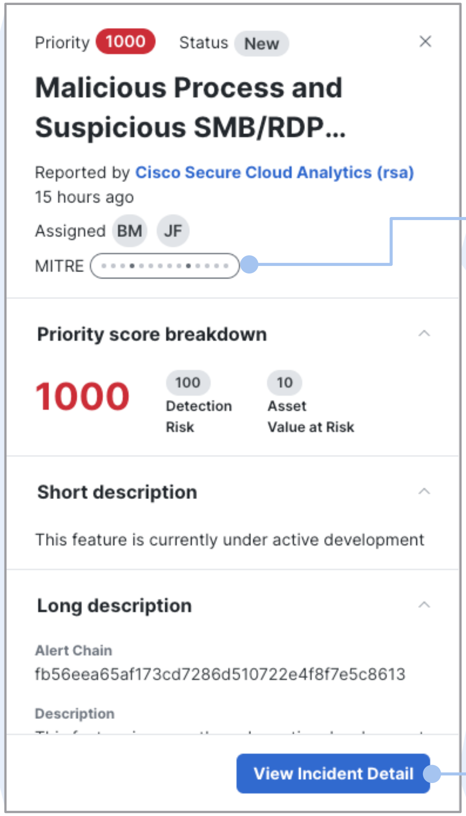
Looking into an incident is a progressive experience where the relevant data is revealed as needed without overwhelming the SOC analyst



Priority	Name
1000	Malicious Process and Suspicious SMB/RDP Activity Detect
1000	Unusual External Server for This is localhost

Rich incident details

Incidents are enriched with data gathered from multiple sources including assets, indicators, observables and others. Associated MITRE ATT&CK tactics and techniques detailed with risk scoring



Priority 1000 Status New

Malicious Process and Suspicious SMB/RDP...

Reported by Cisco Secure Cloud Analytics (rsa)
15 hours ago

Assigned BM JF

MITRE

Priority score breakdown

1000 — 100 Detection Risk — 10 Asset Value at Risk

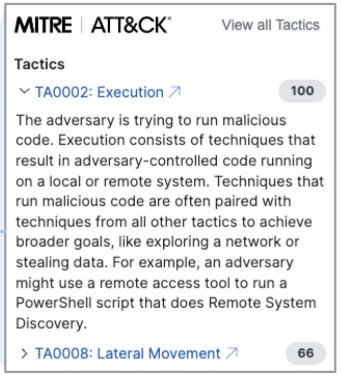
Short description

This feature is currently under active development

Long description

Alert Chain
fb56eea65af173cd7286d510722e4f8f7e5c8613

Description



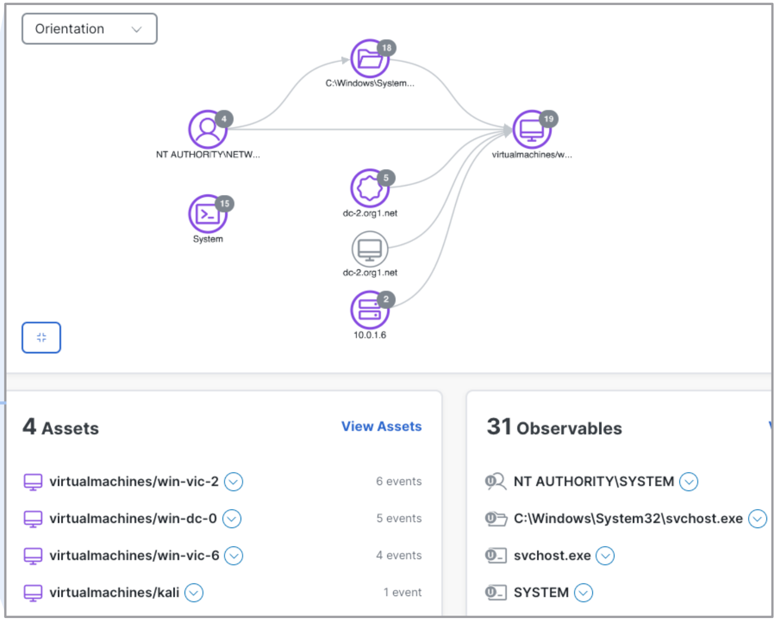
MITRE | ATT&CK

Tactics

TA0002: Execution — 100

The adversary is trying to run malicious code. Execution consists of techniques that result in adversary-controlled code running on a local or remote system. Techniques that run malicious code are often paired with techniques from all other tactics to achieve broader goals, like exploring a network or stealing data. For example, an adversary might use a remote access tool to run a PowerShell script that does Remote System Discovery.

TA0008: Lateral Movement — 66



4 Assets

virtualmachines/win-vic-2	6 events
virtualmachines/win-dc-0	5 events
virtualmachines/win-vic-6	4 events
virtualmachines/kali	1 event

31 Observables

- NT AUTHORITY\SYSTEM
- C:\Windows\System32\svchost.exe
- svchost.exe
- SYSTEM

Reduce investigation time

- Interactive, visual representations of incidents
- Event correlation and attack chaining to group related intelligence
- Automated enrichment for the most critical incidents, ensuring intelligence is gathered immediately

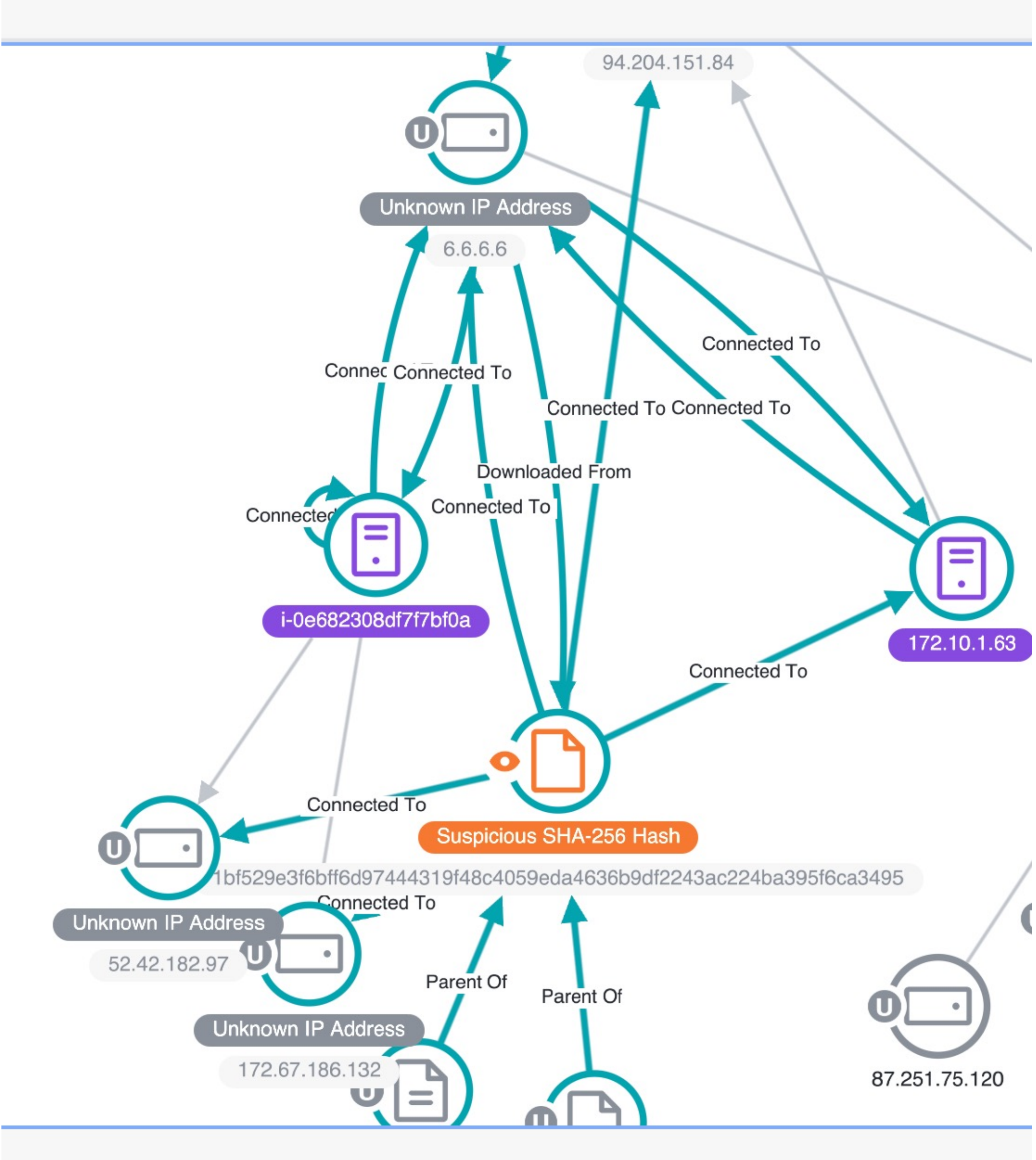
1 Detect Sooner

Prioritize by Impact 2

3 Reduce Investigation Time

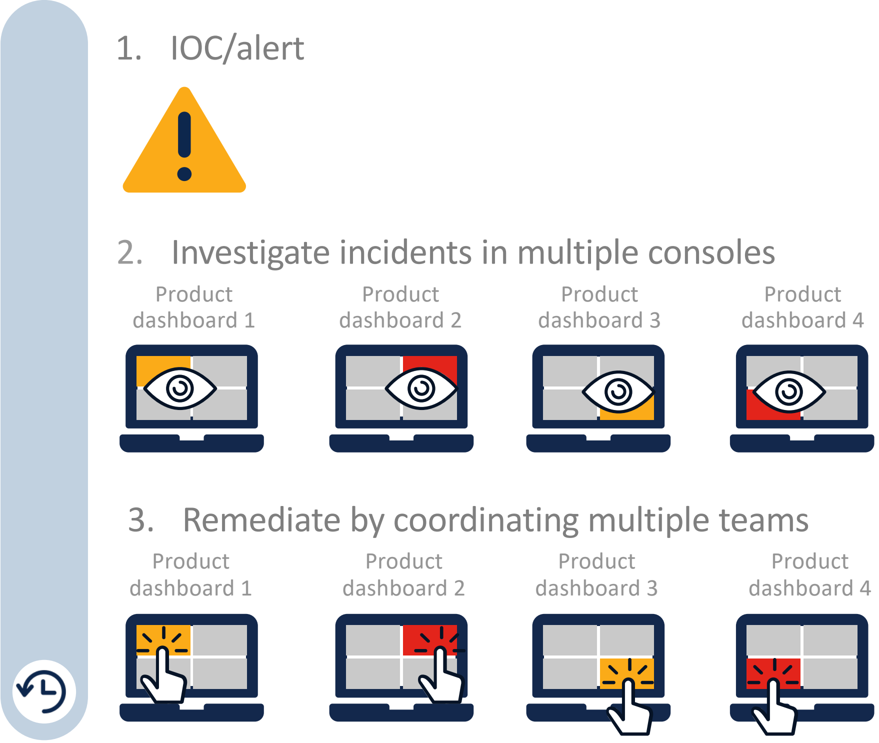
Accelerate Response 4

5 Extend Asset Context



How true simplicity is experienced

Without XDR: 32 minutes

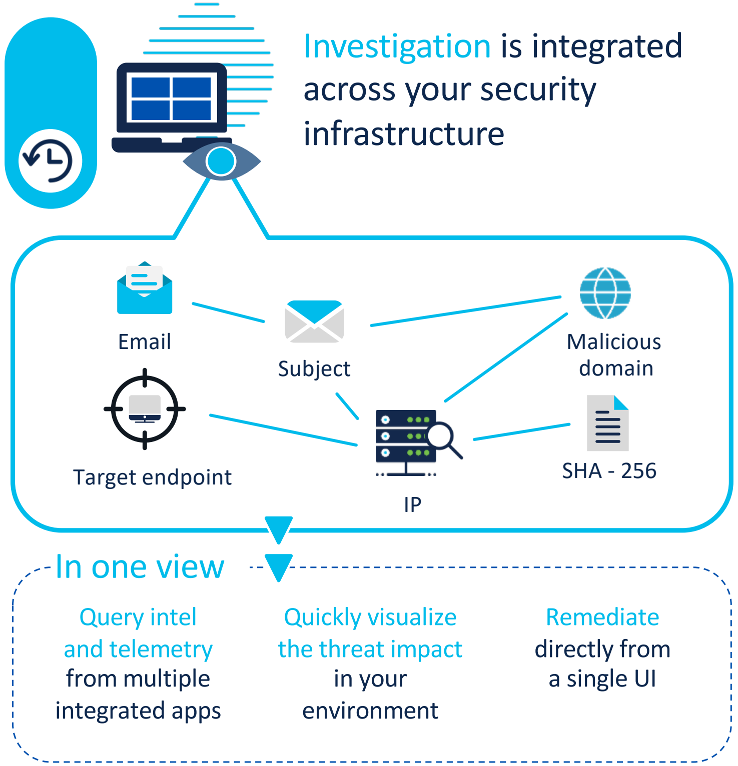


1. IOC/alert

2. Investigate incidents in multiple consoles

3. Remediate by coordinating multiple teams

With XDR: five minutes



Investigation is integrated across your security infrastructure

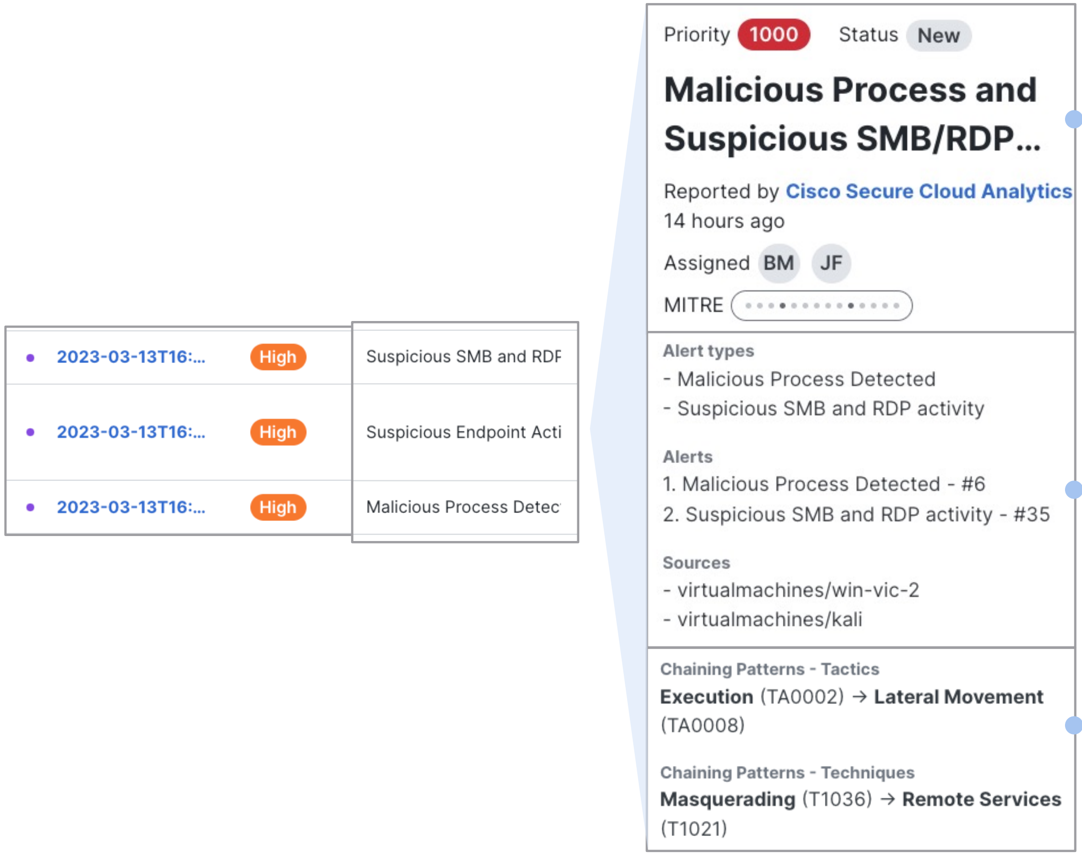
In one view

Query intel and telemetry from multiple integrated apps

Quickly visualize the threat impact in your environment

Remediate directly from a single UI

Confirm attacks sooner with alert correlation



●	2023-03-13T16:...	High	Suspicious SMB and RDF
●	2023-03-13T16:...	High	Suspicious Endpoint Acti
●	2023-03-13T16:...	High	Malicious Process Detec

Priority 1000 Status New

Malicious Process and Suspicious SMB/RDP...

Reported by **Cisco Secure Cloud Analytics**
14 hours ago

Assigned BM JF

MITRE

Alert types
- Malicious Process Detected
- Suspicious SMB and RDP activity

Alerts
1. Malicious Process Detected - #6
2. Suspicious SMB and RDP activity - #35

Sources
- virtualmachines/win-vic-2
- virtualmachines/kali

Chaining Patterns - Tactics
Execution (TA0002) → **Lateral Movement** (TA0008)

Chaining Patterns - Techniques
Masquerading (T1036) → **Remote Services** (T1021)

Correlate alerts through time

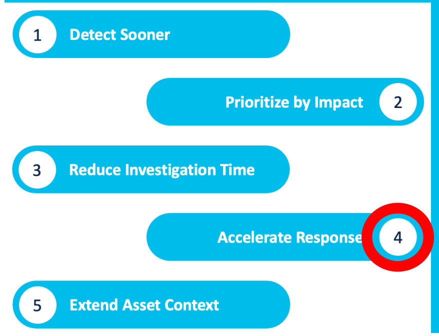
Automatically create new incidents from correlated alerts over time, reveal the bigger picture of a multi-stage attack

Mapping the Attack Chain

Using MITRE Tactics and Techniques to connect and revealing the attack chain

Accelerate response

- Ability to respond throughout the interface
- Simplified response workflows available from within incidents
- Broad set of workflows to achieve a variety of outcomes



1 Detect Sooner

Prioritize by Impact 2

3 Reduce Investigation Time

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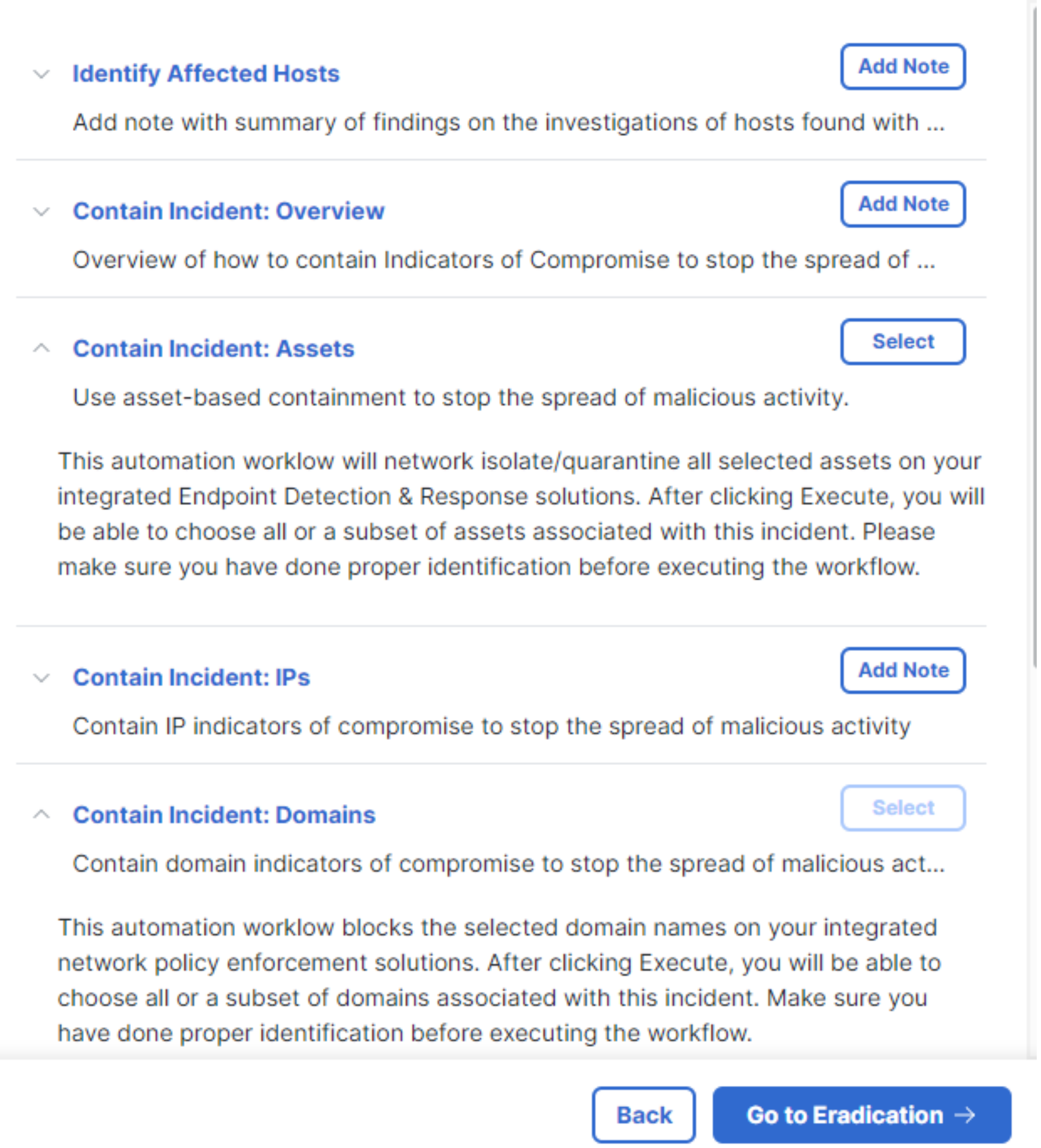


Identify Affected Hosts

Add note with summary of findings on the investigations of hosts found with ...

Contain Incident: Overview

Overview of how to contain Indicators of Compromise to stop the spread of ...

Contain Incident: Assets

Use asset-based containment to stop the spread of malicious activity.

This automation worklow will network isolate/quarantine all selected assets on your integrated Endpoint Detection & Response solutions. After clicking Execute, you will be able to choose all or a subset of assets associated with this incident. Please make sure you have done proper identification before executing the workflow.

Contain Incident: IPs

Contain IP indicators of compromise to stop the spread of malicious activity

Contain Incident: Domains

Contain domain indicators of compromise to stop the spread of malicious act...

This automation worklow blocks the selected domain names on your integrated network policy enforcement solutions. After clicking Execute, you will be able to choose all or a subset of domains associated with this incident. Make sure you have done proper identification before executing the workflow.

Powerful, flexible automation

Response

Analyst triggers a workflow from within the incident manager or a pivot menu

Automation rules

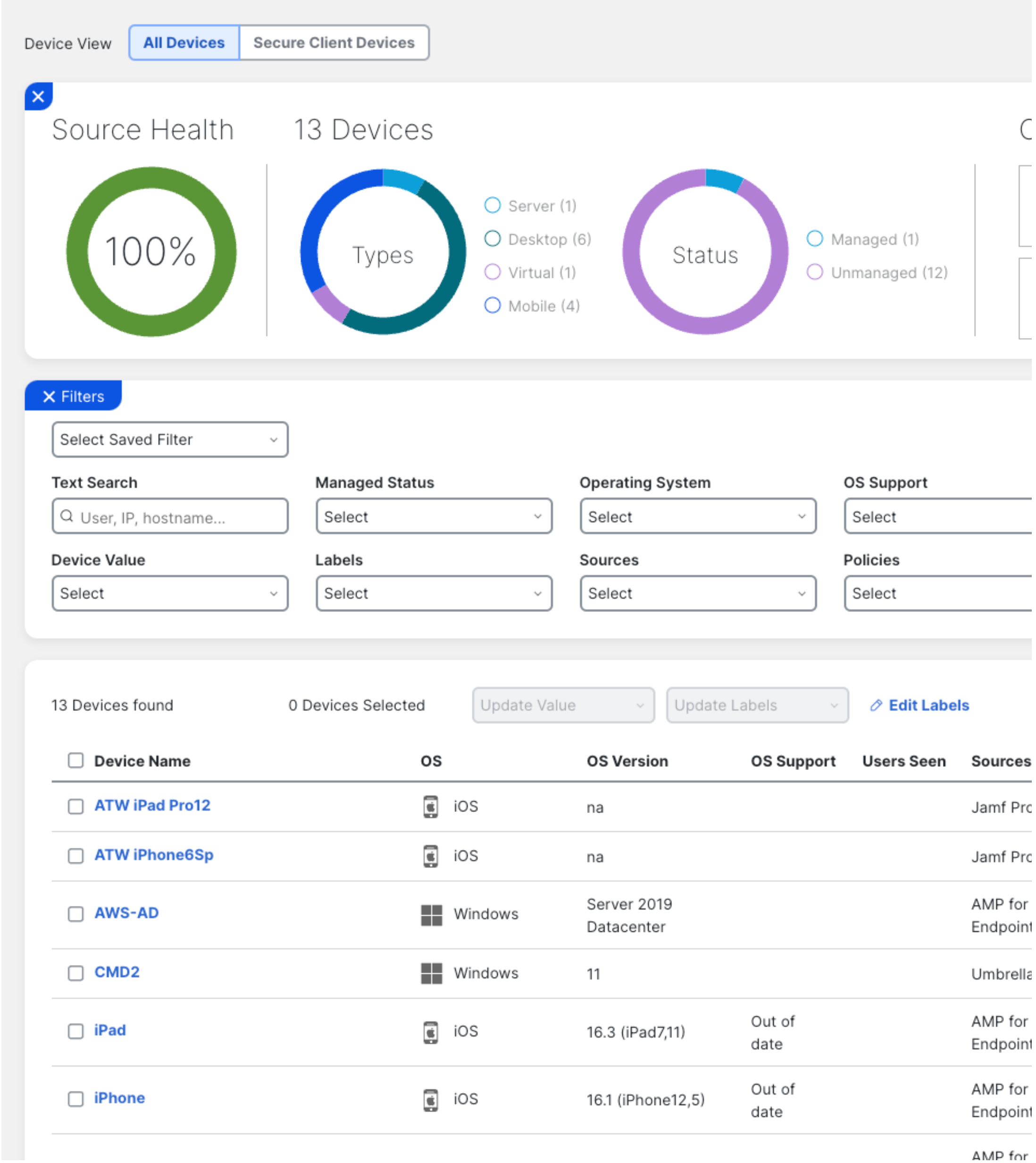
An incident matches a pre-defined rule and a workflow is triggered

And more…

Workflows triggered by users, APIs, webhooks, schedules, and more

Extend asset context

- Detailed asset information aggregated from multiple sources
- Combines asset inventory with security context
- Allows for more accurate incident prioritization based on asset value
- Distinguish between targets and assets



Select Saved Filter

Text Search	Managed Status	Operating System	OS Support
User, IP, hostname...	Select	Select	Select
Device Value	**Labels**	**Sources**	**Policies**
Select	Select	Select	Select

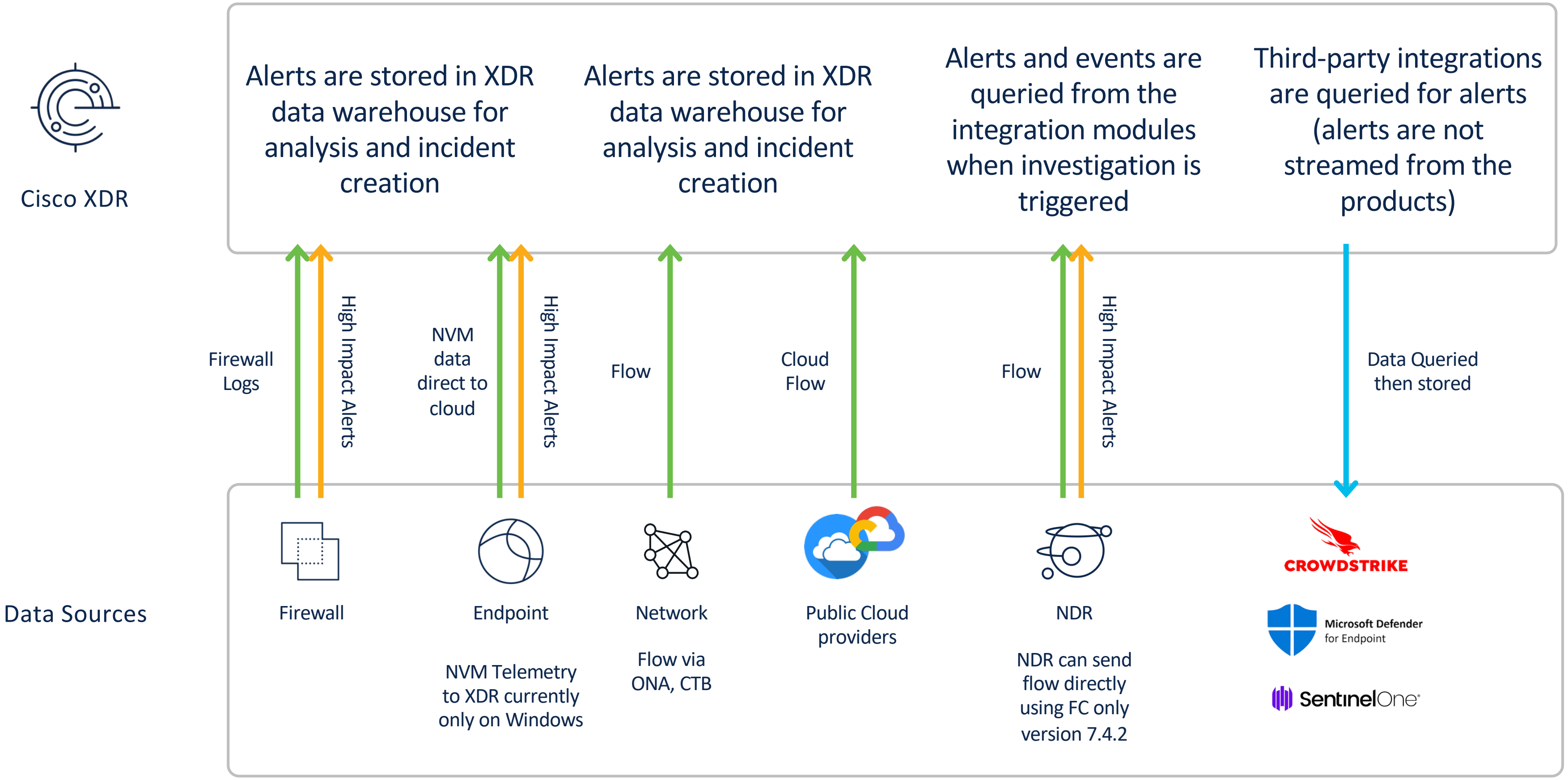
13 Devices found

0 Devices Selected

□ Device Name	OS	OS Version	OS Support	Users Seen	Sources
□ ATW iPad Pro12	iOS	na			Jamf Pro
□ ATW iPhone6Sp	iOS	na			Jamf Pro
□ AWS-AD	Windows	Server 2019 Datacenter			AMP for Endpoint
□ CMD2	Windows	11			Umbrella
□ iPad	iOS	16.3 (iPad7,11)	Out of date		AMP for Endpoint
□ iPhone	iOS	16.1 (iPhone12,5)	Out of date		AMP for Endpoint
					AMP for

Features

Telemetry with Cisco XDR



Cisco XDR

Alerts are stored in XDR data warehouse for analysis and incident creation

Alerts are stored in XDR data warehouse for analysis and incident creation

Alerts and events are queried from the integration modules when investigation is triggered

Third-party integrations are queried for alerts (alerts are not streamed from the products)

Firewall Logs

High Impact Alerts

NVM data direct to cloud

High Impact Alerts

Flow

Cloud Flow

Flow

High Impact Alerts

Data Queried then stored

Data Sources

Firewall

Endpoint

NVM Telemetry to XDR currently only on Windows

Network

Flow via ONA, CTB

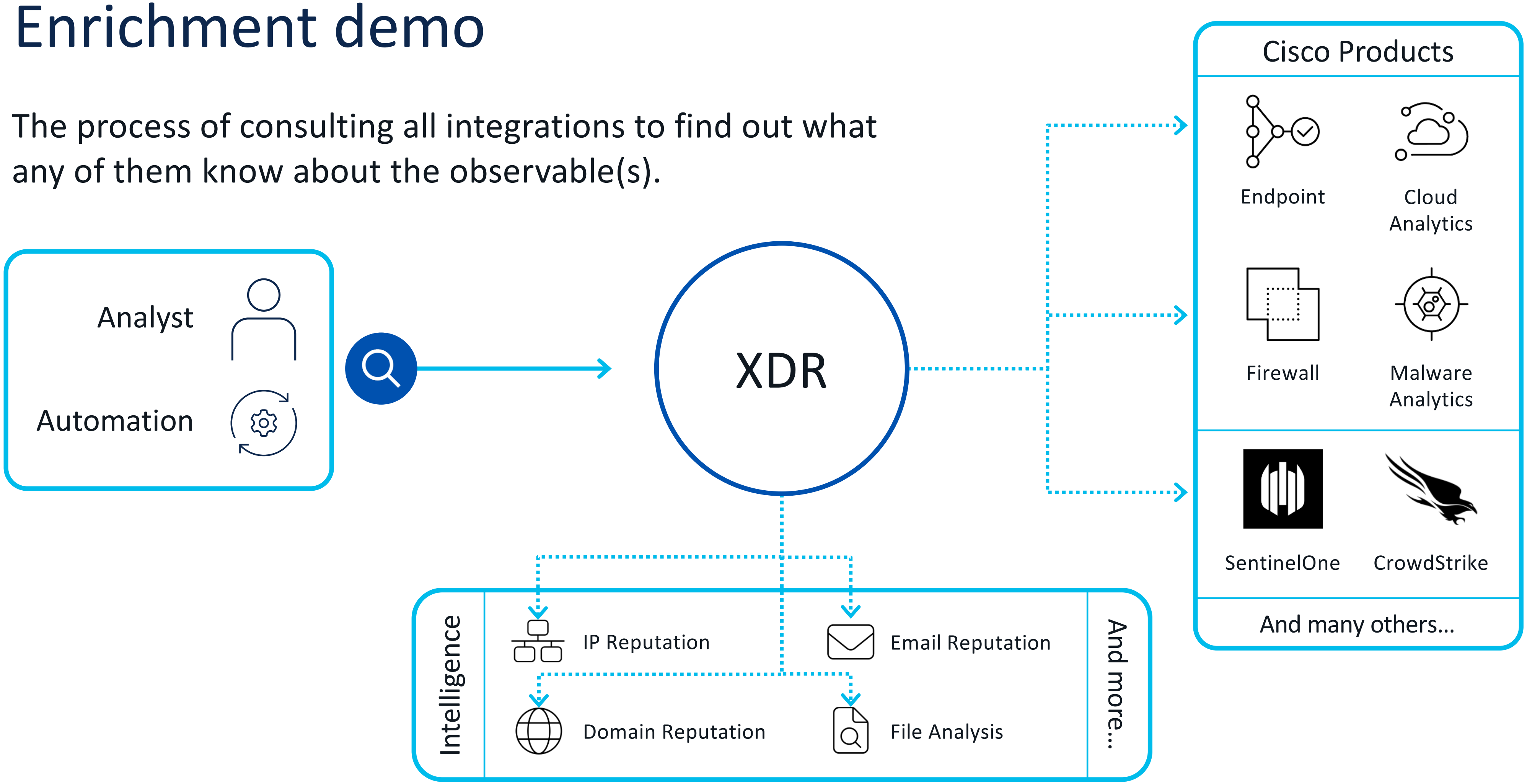
Public Cloud providers

NDR

NDR can send flow directly using FC only version 7.4.2

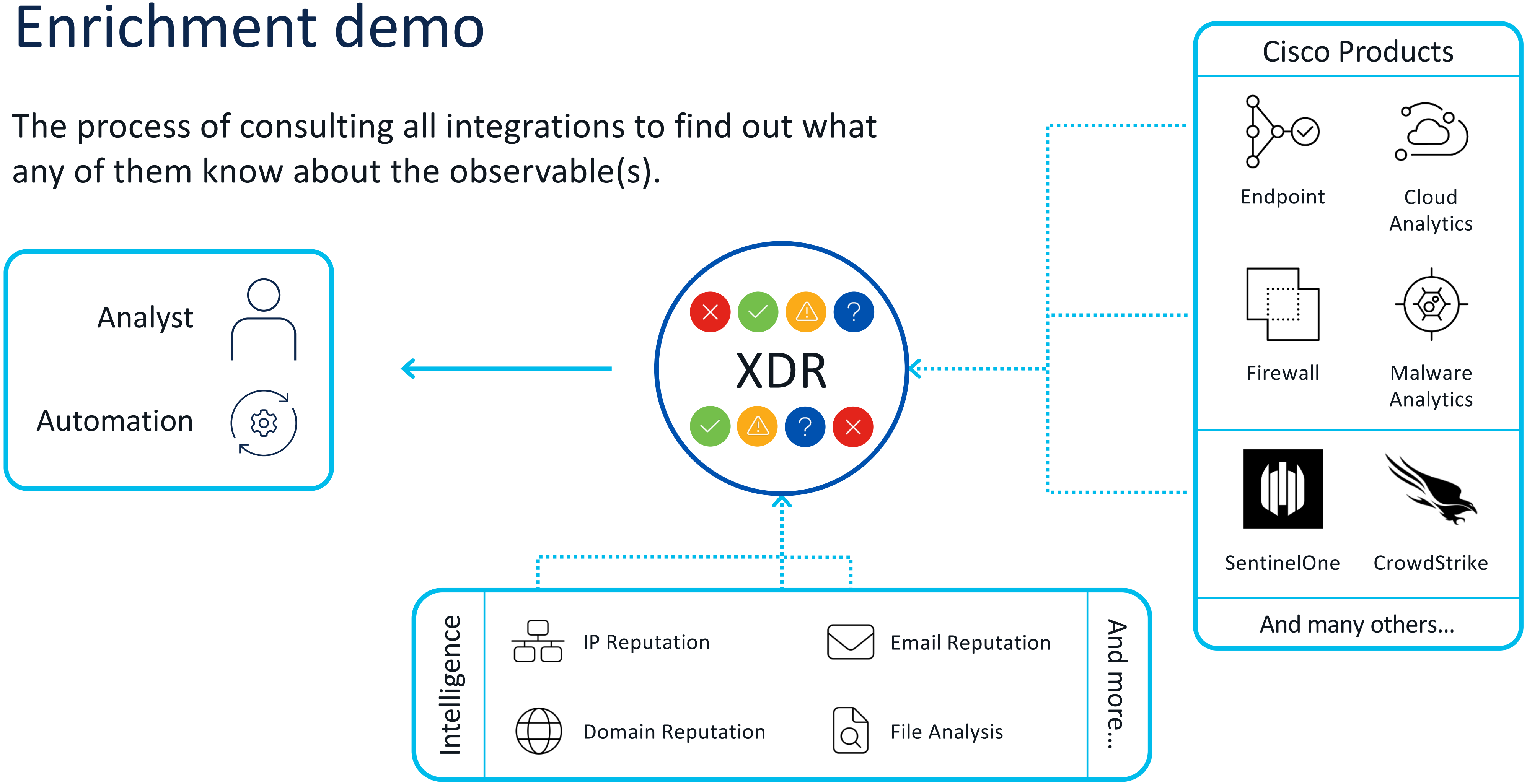
Enrichment demo

The process of consulting all integrations to find out what any of them know about the observable(s).

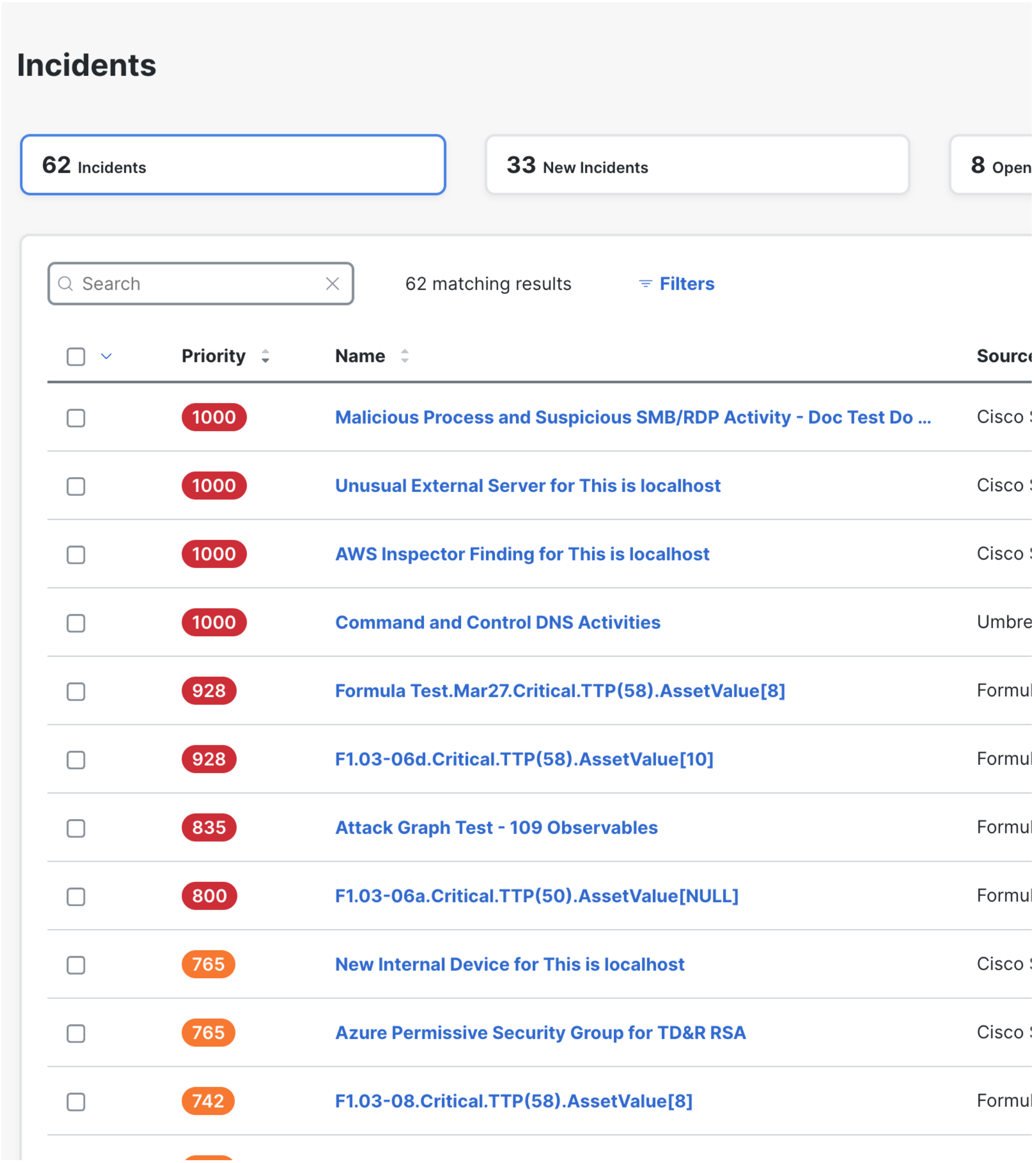


Enrichment demo

The process of consulting all integrations to find out what any of them know about the observable(s).



Incident manager



Incidents

62 Incidents | 33 New Incidents | 8 Open

Search ✕ | 62 matching results | Filters

□	Priority	Name	Sourc
□	1000	Malicious Process and Suspicious SMB/RDP Activity - Doc Test Do ...	Cisco
□	1000	Unusual External Server for This is localhost	Cisco
□	1000	AWS Inspector Finding for This is localhost	Cisco
□	1000	Command and Control DNS Activities	Umbre
□	928	Formula Test.Mar27.Critical.TTP(58).AssetValue[8]	Formul
□	928	F1.03-06d.Critical.TTP(58).AssetValue[10]	Formul
□	835	Attack Graph Test - 109 Observables	Formul
□	800	F1.03-06a.Critical.TTP(50).AssetValue[NULL]	Formul
□	765	New Internal Device for This is localhost	Cisco
□	765	Azure Permissive Security Group for TD&R RSA	Cisco
□	742	F1.03-08.Critical.TTP(58).AssetValue[8]	Formul

Incident manager

Centralized incident management

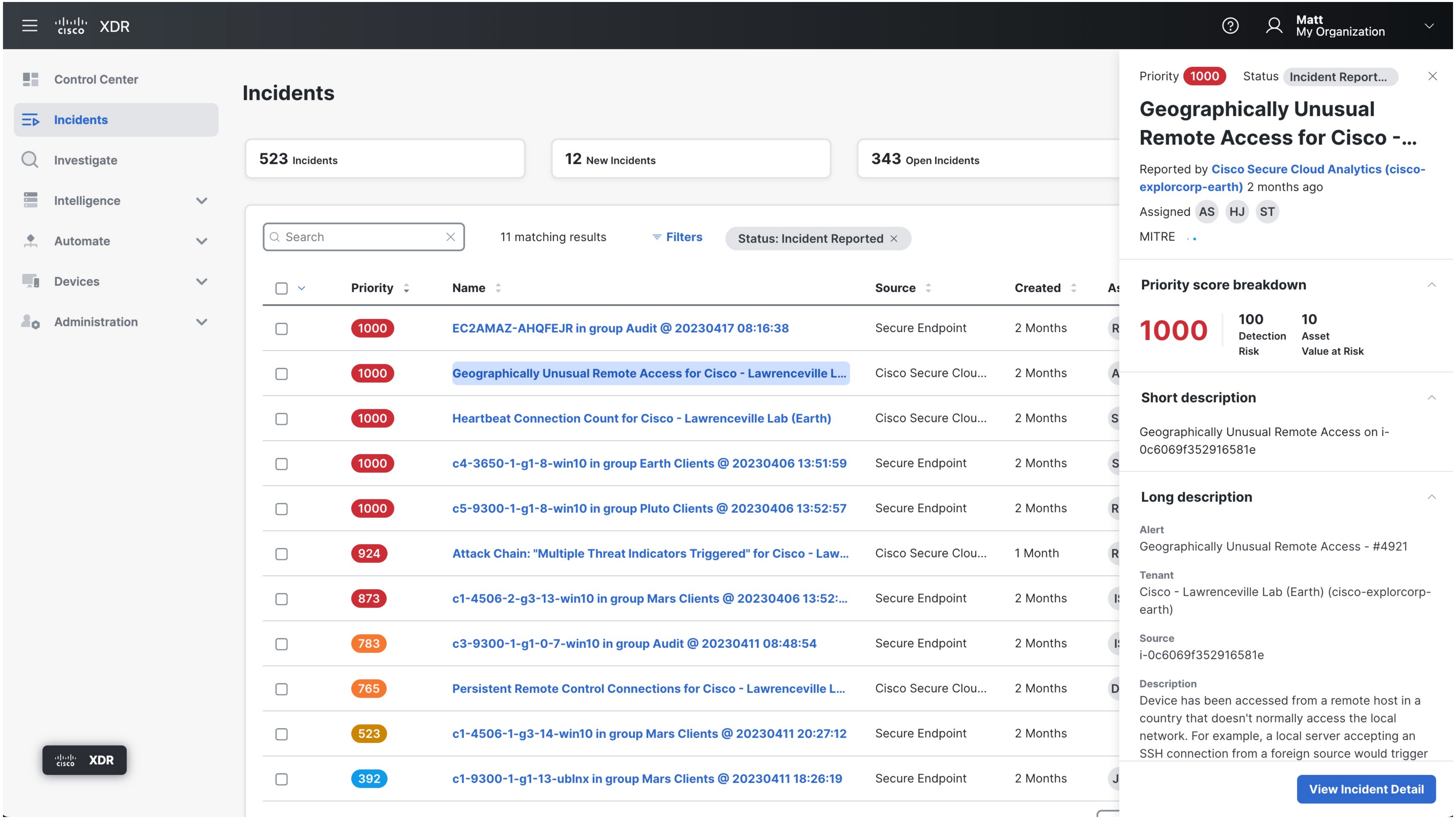
Incidents from a wide portfolio of products, all in one place

Automated prioritization

Risk- and asset-based prioritization, so you know what to investigate first

Built-in response workflows

Automated actions that make resolving an incident simpler and faster



Incidents

523 Incidents

12 New Incidents

343 Open Incidents

Search

11 matching results

Filters

Status: Incident Reported ×

□	Priority	Name	Source	Created	As
□	1000	EC2AMAZ-AHQFEJR in group Audit @ 20230417 08:16:38	Secure Endpoint	2 Months	R
□	1000	Geographically Unusual Remote Access for Cisco - Lawrenceville L...	Cisco Secure Clou...	2 Months	A
□	1000	Heartbeat Connection Count for Cisco - Lawrenceville Lab (Earth)	Cisco Secure Clou...	2 Months	S
□	1000	c4-3650-1-g1-8-win10 in group Earth Clients @ 20230406 13:51:59	Secure Endpoint	2 Months	S
□	1000	c5-9300-1-g1-8-win10 in group Pluto Clients @ 20230406 13:52:57	Secure Endpoint	2 Months	R
□	924	Attack Chain: "Multiple Threat Indicators Triggered" for Cisco - Law...	Cisco Secure Clou...	1 Month	R
□	873	c1-4506-2-g3-13-win10 in group Mars Clients @ 20230406 13:52:...	Secure Endpoint	2 Months	I
□	783	c3-9300-1-g1-0-7-win10 in group Audit @ 20230411 08:48:54	Secure Endpoint	2 Months	I
□	765	Persistent Remote Control Connections for Cisco - Lawrenceville L...	Cisco Secure Clou...	2 Months	D
□	523	c1-4506-1-g3-14-win10 in group Mars Clients @ 20230411 20:27:12	Secure Endpoint	2 Months	
□	392	c1-9300-1-g1-13-ublnx in group Mars Clients @ 20230411 18:26:19	Secure Endpoint	2 Months	J

Priority 1000 Status Incident Report...

Geographically Unusual Remote Access for Cisco -...

Reported by Cisco Secure Cloud Analytics (cisco-explorcorp-earth) 2 months ago

Assigned AS HJ ST

MITRE

Priority score breakdown

1000

100 Detection Risk

10 Asset Value at Risk

Short description

Geographically Unusual Remote Access on i-0c6069f352916581e

Long description

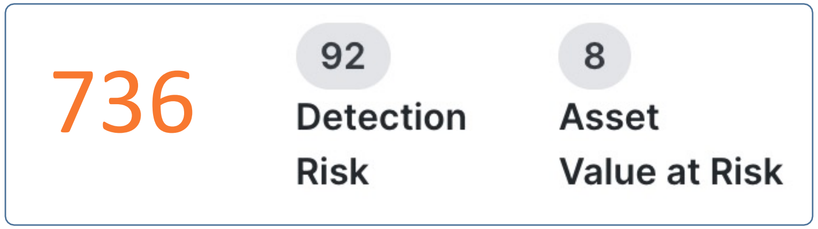
Alert
Geographically Unusual Remote Access - #4921

Tenant
Cisco - Lawrenceville Lab (Earth) (cisco-explorcorp-earth)

Source
i-0c6069f352916581e

Description
Device has been accessed from a remote host in a country that doesn't normally access the local network. For example, a local server accepting an SSH connection from a foreign source would trigger

Identify the most impactful incidents based on risk



736

92 Detection Risk

8 Asset Value at Risk

Priority Score = Detection Risk x Asset Value

0-1000 0-100 0-10

The total priority score used to prioritize incidents

Detection risk composed of multiple values:

- MITRE TTP Financial Risk
- Number of MITRE TTPs
- Source Severity

User-defined asset value represents the value of the assets involved in the incident

Incident response in four stages

Identify

Review the incident and confirm the findings

Contain

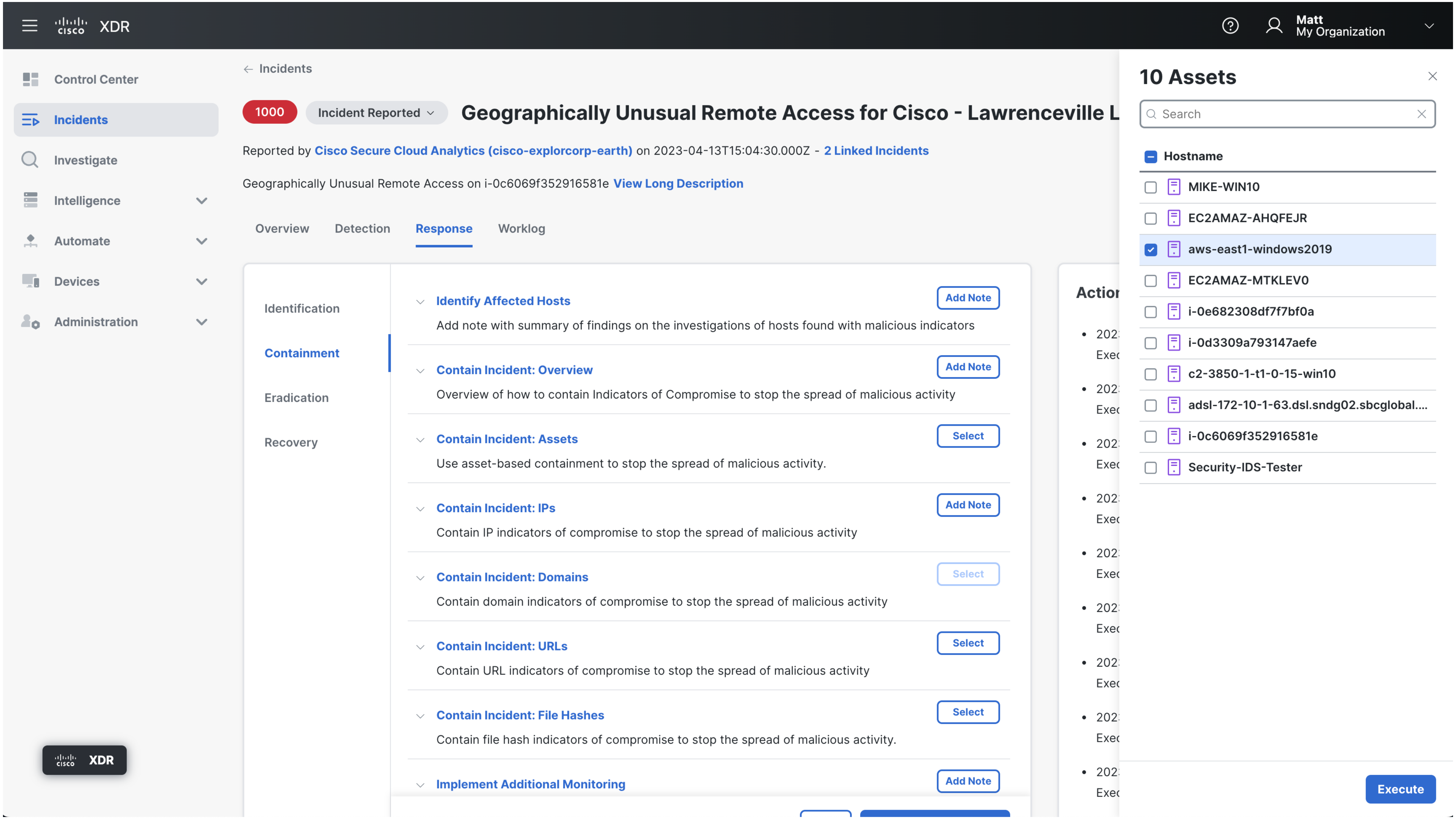
Act against impacted hosts, domains, files, etc.

Eradicate

Remediate vulnerabilities and remove malicious content

Recover

Validate remediation and restore impacted services



Geographically Unusual Remote Access for Cisco - Lawrenceville L

Reported by Cisco Secure Cloud Analytics (cisco-explorcorp-earth) on 2023-04-13T15:04:30.000Z - 2 Linked Incidents

Geographically Unusual Remote Access on i-0c6069f352916581e View Long Description

Identify Affected Hosts
Add note with summary of findings on the investigations of hosts found with malicious indicators

Contain Incident: Overview
Overview of how to contain Indicators of Compromise to stop the spread of malicious activity

Contain Incident: Assets
Use asset-based containment to stop the spread of malicious activity.

Contain Incident: IPs
Contain IP indicators of compromise to stop the spread of malicious activity

Contain Incident: Domains
Contain domain indicators of compromise to stop the spread of malicious activity

Contain Incident: URLs
Contain URL indicators of compromise to stop the spread of malicious activity

Contain Incident: File Hashes
Contain file hash indicators of compromise to stop the spread of malicious activity.

Implement Additional Monitoring

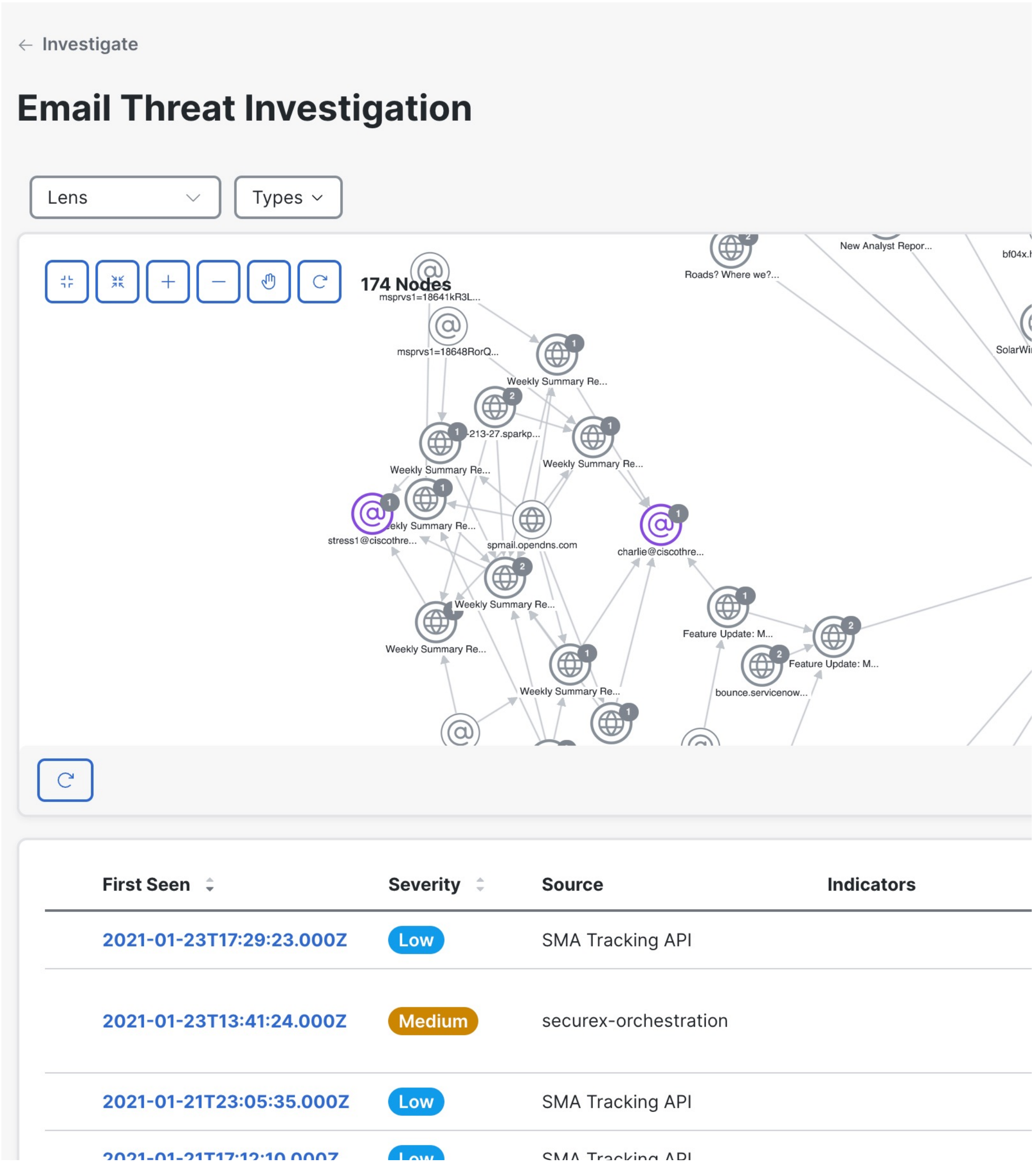
- 202
Exec
- 202
Exec
- 202
Exec
- 202
Exec
- 202
Exec
- 202
Exec
- 202
Exec
- 202
Exec
- 202
Exec

10 Assets

Search

☐	Hostname
☐	MIKE-WIN10
☐	EC2AMAZ-AHQFEJR
☑	aws-east1-windows2019
☐	EC2AMAZ-MTKLEV0
☐	i-0e682308df7f7bf0a
☐	i-0d3309a793147aefe
☐	c2-3850-1-t1-0-15-win10
☐	adsl-172-10-1-63.dsl.sndg02.sbcglobal....
☐	i-0c6069f352916581e
☐	Security-IDS-Tester

Investigate



Email Threat Investigation

First Seen	Severity	Source	Indicators
2021-01-23T17:29:23.000Z	Low	SMA Tracking API	
2021-01-23T13:41:24.000Z	Medium	securex-orchestration	
2021-01-21T23:05:35.000Z	Low	SMA Tracking API	
2021-01-21T17:12:10.000Z	Low	SMA Tracking API	

Investigate

One place to investigate across products

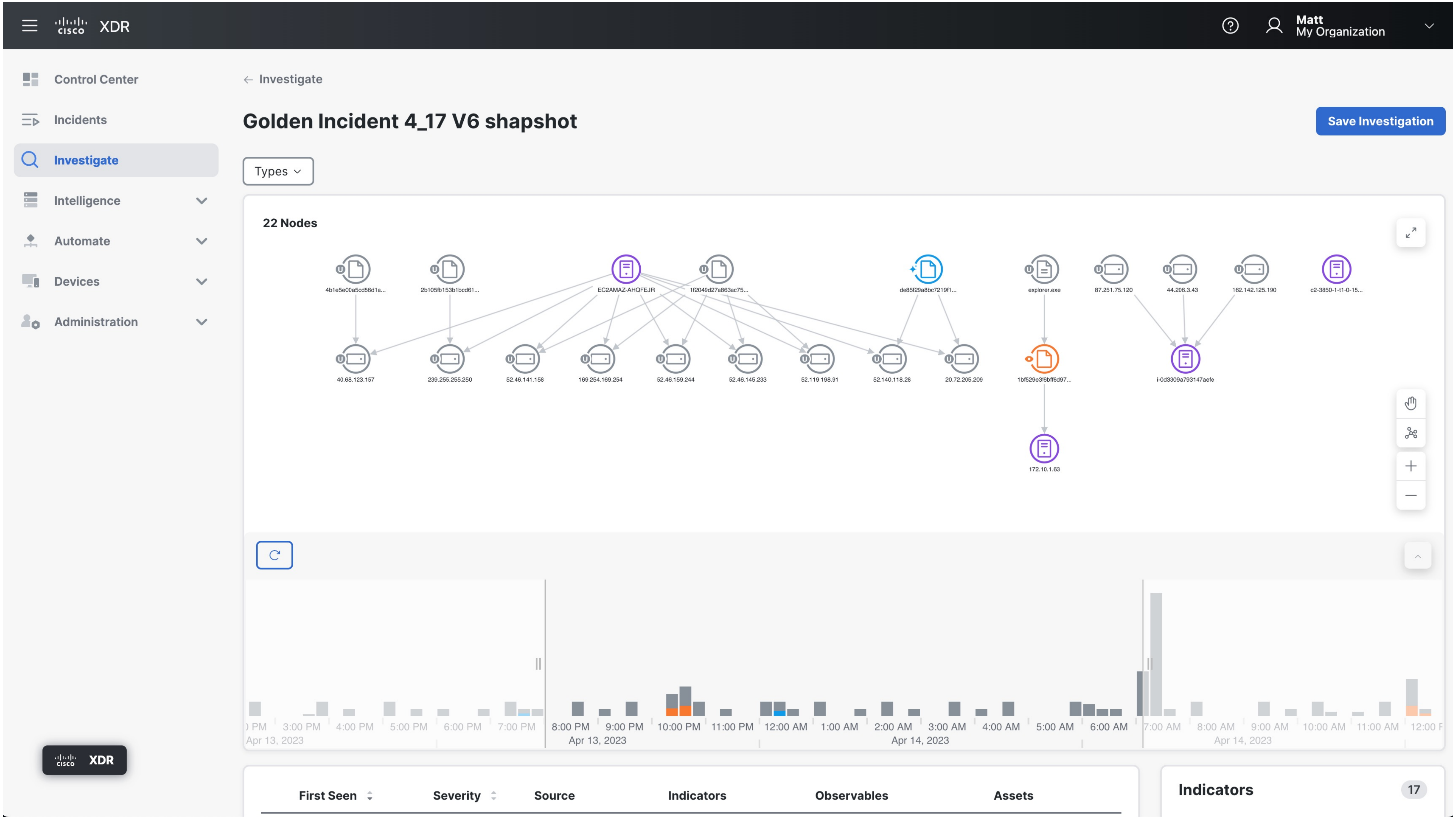
Aggregated intelligence from all your integrated products

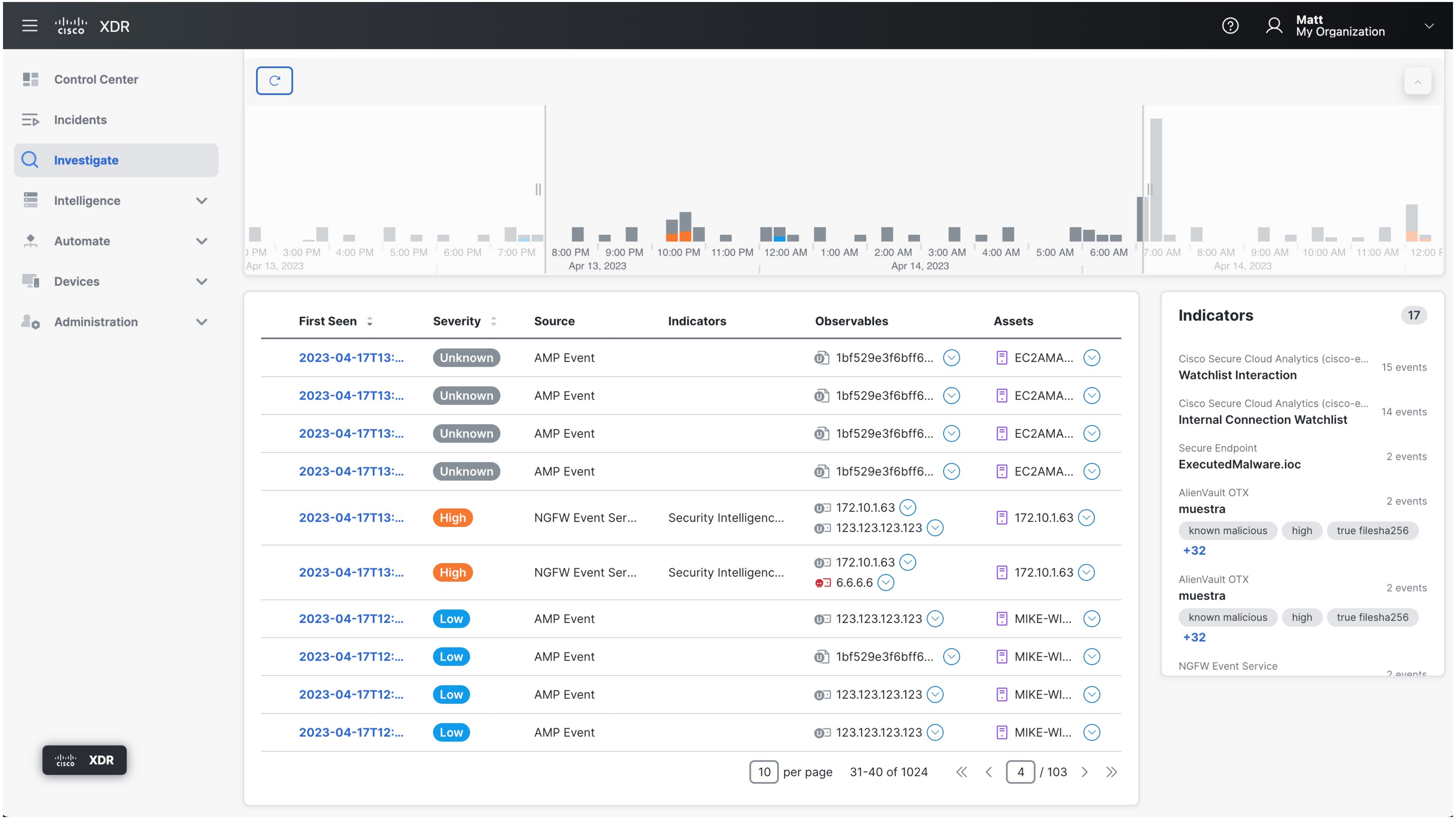
Interactive visualization of investigation elements

Drag, drop, and inspect the results of your investigation

Built-in response actions

Take action right from an investigation, no cross-launching into other products required


XDR
Matt
My Organization
Control Center
Incidents
Investigate
Intelligence
Automate
Devices
Administration
XDR
← Investigate
Golden Incident 4_17 V6 shapshot
Save Investigation
Types
22 Nodes
4b1e5e00a5cd56d1a...
2b105fb153b1bcd61...
EC2AMAZ-AHQFEJR
1f2049d27a863ac75...
de85f29a8bc7219f1...
explorer.exe
87.251.75.120
44.206.3.43
162.142.125.190
c2-3850-1-t1-0-15...
40.68.123.157
239.255.255.250
52.46.141.158
169.254.169.254
52.46.159.244
52.46.145.233
52.119.198.91
52.140.118.28
20.72.205.209
1bf529e3f6bff6d97...
i-0d3309a793147aefe
172.10.1.63
) PM
3:00 PM
4:00 PM
5:00 PM
6:00 PM
7:00 PM
8:00 PM
9:00 PM
10:00 PM
11:00 PM
12:00 AM
1:00 AM
2:00 AM
3:00 AM
4:00 AM
5:00 AM
6:00 AM
7:00 AM
8:00 AM
9:00 AM
10:00 AM
11:00 AM
12:00 F
Apr 13, 2023
Apr 13, 2023
Apr 14, 2023
Apr 14, 2023
First Seen
Severity
Source
Indicators
Observables
Assets
Indicators
17



First Seen	Severity	Source	Indicators	Observables	Assets
2023-04-17T13:...	Unknown	AMP Event		1bf529e3f6bff6...	EC2AMA...
2023-04-17T13:...	Unknown	AMP Event		1bf529e3f6bff6...	EC2AMA...
2023-04-17T13:...	Unknown	AMP Event		1bf529e3f6bff6...	EC2AMA...
2023-04-17T13:...	Unknown	AMP Event		1bf529e3f6bff6...	EC2AMA...
2023-04-17T13:...	High	NGFW Event Ser...	Security Intelligenc...	172.10.1.63 123.123.123.123	172.10.1.63
2023-04-17T13:...	High	NGFW Event Ser...	Security Intelligenc...	172.10.1.63 6.6.6.6	172.10.1.63
2023-04-17T12:...	Low	AMP Event		123.123.123.123	MIKE-WI...
2023-04-17T12:...	Low	AMP Event		1bf529e3f6bff6...	MIKE-WI...
2023-04-17T12:...	Low	AMP Event		123.123.123.123	MIKE-WI...
2023-04-17T12:...	Low	AMP Event		123.123.123.123	MIKE-WI...

10 per page 31-40 of 1024 4 / 103

Indicators 17

Cisco Secure Cloud Analytics (cisco-e...
Watchlist Interaction 15 events

Cisco Secure Cloud Analytics (cisco-e...
Internal Connection Watchlist 14 events

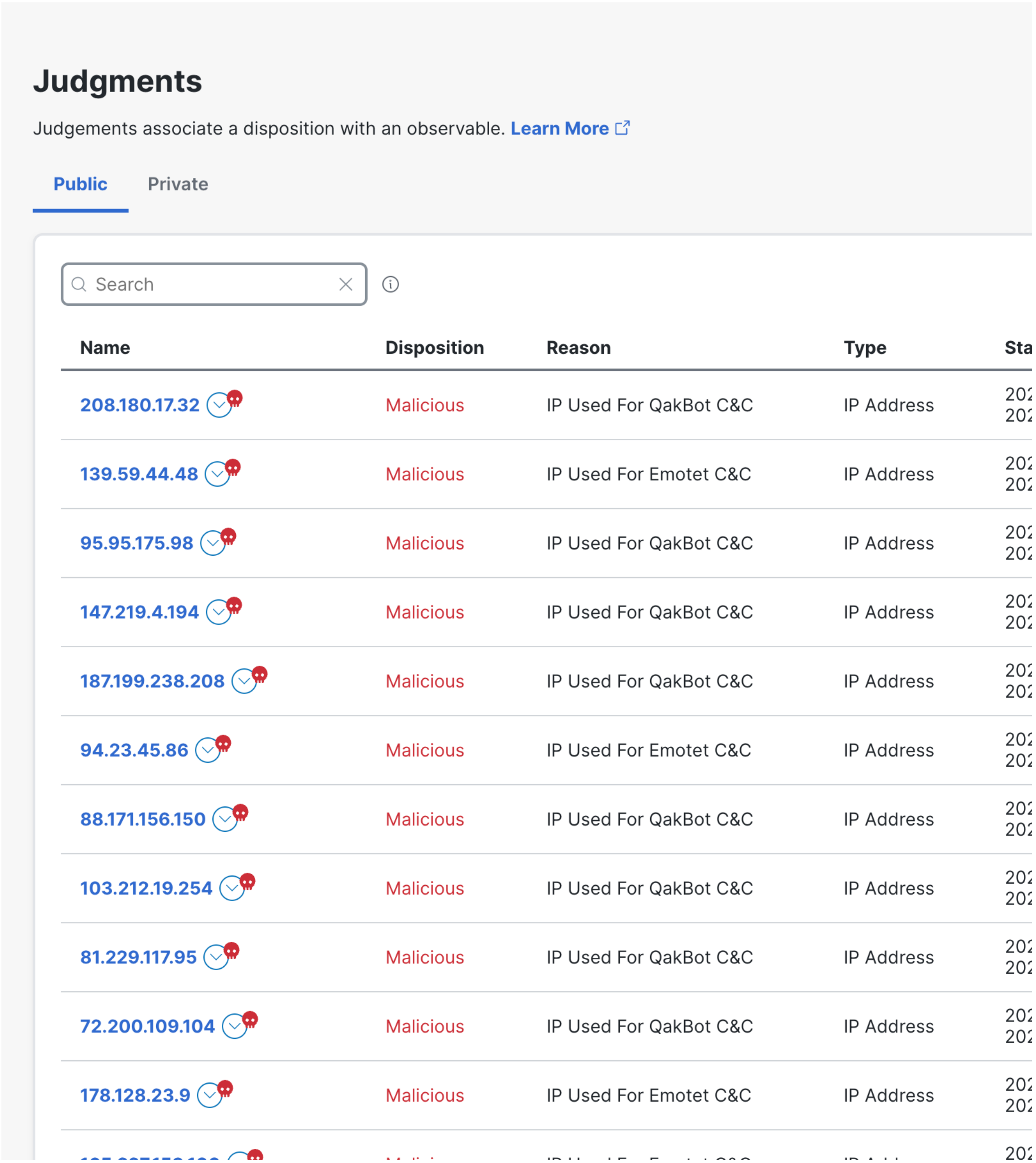
Secure Endpoint
ExecutedMalware.ioc 2 events

AlienVault OTX
muestra 2 events
known malicious high true filesha256 +32

AlienVault OTX
muestra 2 events
known malicious high true filesha256 +32

NGFW Event Service 2 events

Intelligence



Judgments

Judgements associate a disposition with an observable. Learn More

Name	Disposition	Reason	Type	Sta
208.180.17.32	Malicious	IP Used For QakBot C&C	IP Address	202 202
139.59.44.48	Malicious	IP Used For Emotet C&C	IP Address	202 202
95.95.175.98	Malicious	IP Used For QakBot C&C	IP Address	202 202
147.219.4.194	Malicious	IP Used For QakBot C&C	IP Address	202 202
187.199.238.208	Malicious	IP Used For QakBot C&C	IP Address	202 202
94.23.45.86	Malicious	IP Used For Emotet C&C	IP Address	202 202
88.171.156.150	Malicious	IP Used For QakBot C&C	IP Address	202 202
103.212.19.254	Malicious	IP Used For QakBot C&C	IP Address	202 202
81.229.117.95	Malicious	IP Used For QakBot C&C	IP Address	202 202
72.200.109.104	Malicious	IP Used For QakBot C&C	IP Address	202 202
178.128.23.9	Malicious	IP Used For Emotet C&C	IP Address	202 202
[illegible]	[illegible]	[illegible]	[illegible]	202

Intelligence

Centralized repository of threat intelligence

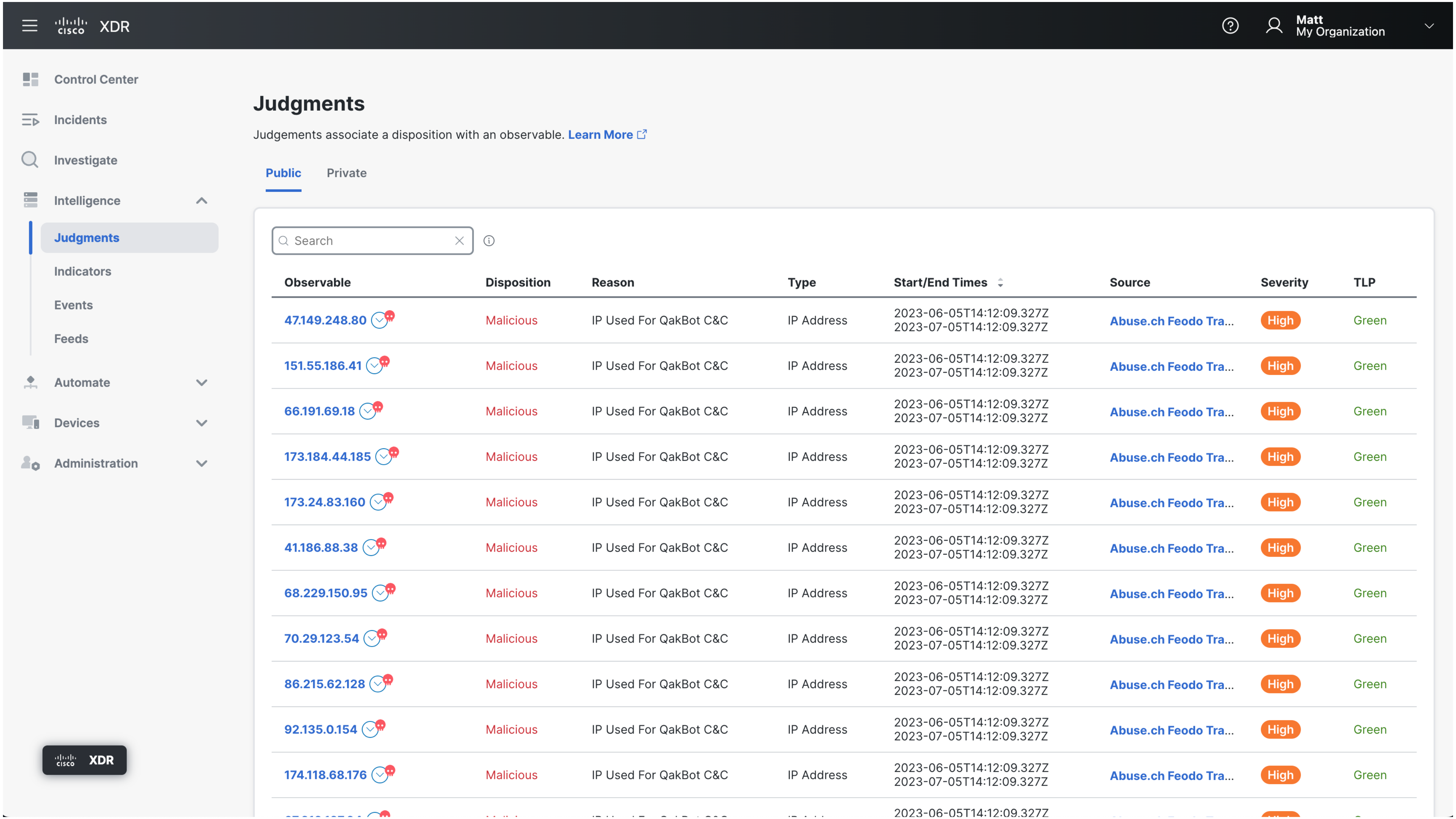
Customizable database of intelligence that powers your investigations

Customizable intelligence feeds

Publish feeds for other products to consume, keeping all your control points up to date

Talos intelligence, out of the box

Advanced threat research and intelligence, built into Cisco XDR

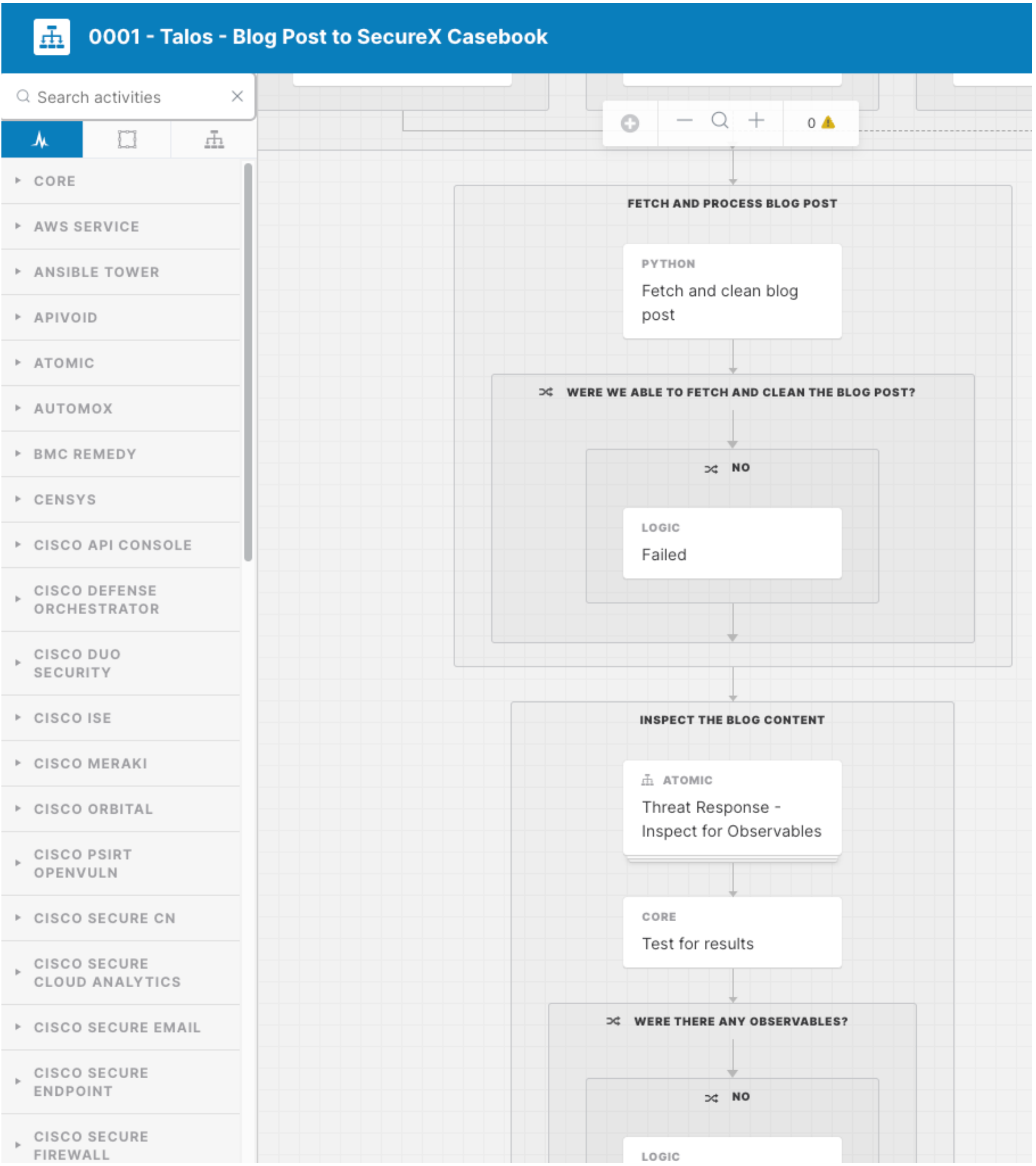


Judgments

Judgements associate a disposition with an observable. Learn More

Observable	Disposition	Reason	Type	Start/End Times	Source	Severity	TLP
47.149.248.80	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
151.55.186.41	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
66.191.69.18	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
173.184.44.185	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
173.24.83.160	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
41.186.88.38	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
68.229.150.95	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
70.29.123.54	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
86.215.62.128	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
92.135.0.154	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
174.118.68.176	Malicious	IP Used For QakBot C&C	IP Address	2023-06-05T14:12:09.327Z 2023-07-05T14:12:09.327Z	Abuse.ch Feodo Tra...	High	Green
				2023-06-05T14:12:09.327Z			

Automation



0001 - Talos - Blog Post to SecureX Casebook

Automation

Drag and drop, ”no-to-low code” workflow builder

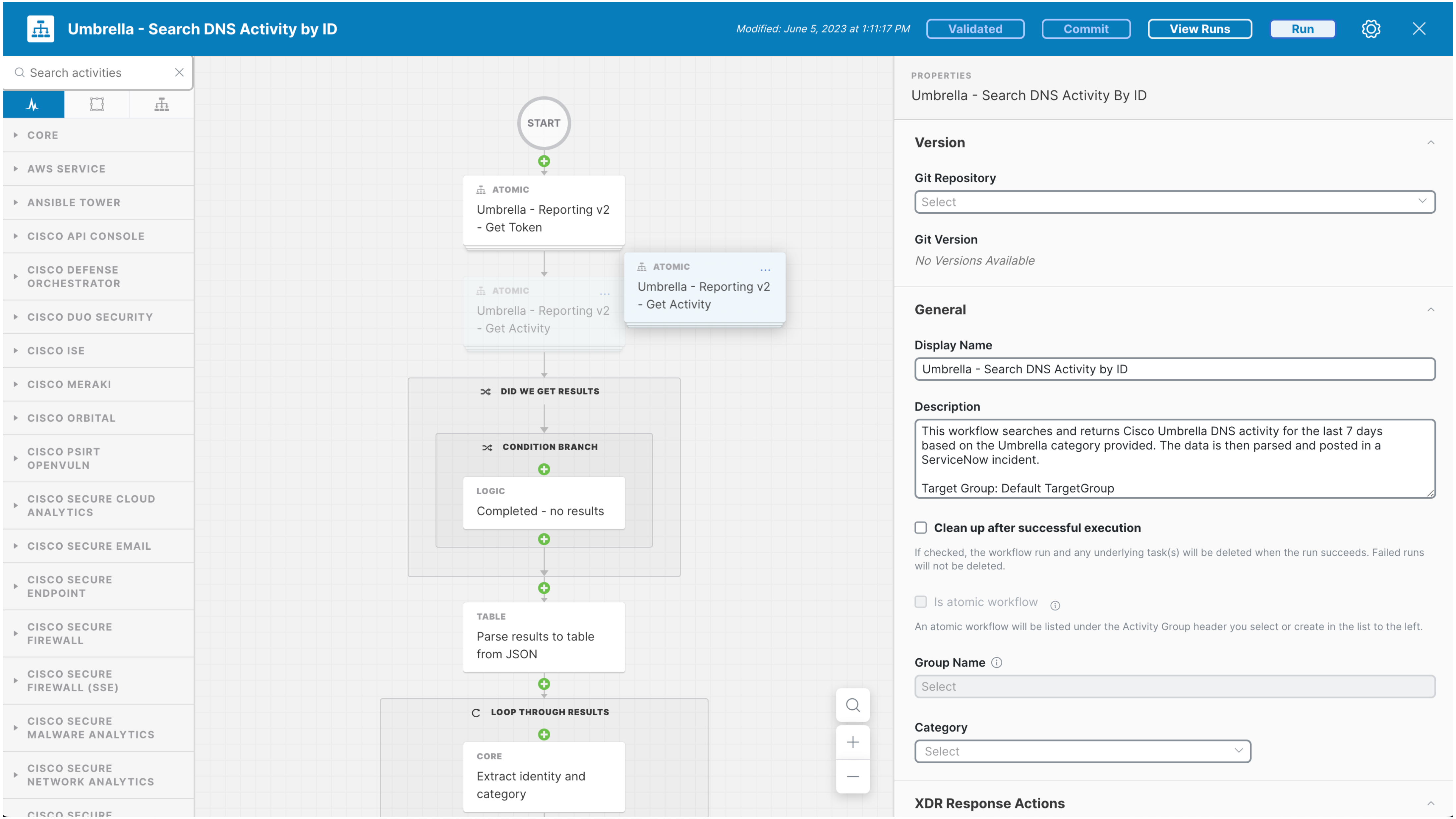
Simple workflow editor that works without writing a single line of code

Accelerates how you investigate and respond

Automate how your analysts investigate and respond

Out of the box workflows from Cisco

Popular use cases built in, more available for import from Cisco



Umbrella - Search DNS Activity by ID
Modified: June 5, 2023 at 1:11:17 PM
Validated
Commit
View Runs
Run
Search activities
CORE
AWS SERVICE
ANSIBLE TOWER
CISCO API CONSOLE
CISCO DEFENSE ORCHESTRATOR
CISCO DUO SECURITY
CISCO ISE
CISCO MERAKI
CISCO ORBITAL
CISCO PSIRT OPENVULN
CISCO SECURE CLOUD ANALYTICS
CISCO SECURE EMAIL
CISCO SECURE ENDPOINT
CISCO SECURE FIREWALL
CISCO SECURE FIREWALL (SSE)
CISCO SECURE MALWARE ANALYTICS
CISCO SECURE NETWORK ANALYTICS
CISCO SECURE
START
ATOMIC
Umbrella - Reporting v2 - Get Token
ATOMIC
Umbrella - Reporting v2 - Get Activity
ATOMIC
Umbrella - Reporting v2 - Get Activity
DID WE GET RESULTS
CONDITION BRANCH
LOGIC
Completed - no results
TABLE
Parse results to table from JSON
LOOP THROUGH RESULTS
CORE
Extract identity and category

PROPERTIES

Umbrella - Search DNS Activity By ID

Version

Git Repository: Select

Git Version: *No Versions Available*

General

Display Name: Umbrella - Search DNS Activity by ID

Description: This workflow searches and returns Cisco Umbrella DNS activity for the last 7 days based on the Umbrella category provided. The data is then parsed and posted in a ServiceNow incident.

Target Group: Default TargetGroup

□ **Clean up after successful execution**

If checked, the workflow run and any underlying task(s) will be deleted when the run succeeds. Failed runs will not be deleted.

□ Is atomic workflow

An atomic workflow will be listed under the Activity Group header you select or create in the list to the left.

Group Name: Select

Category: Select

XDR Response Actions

Investigate

Compress the time between detection and response by gathering information and presenting it to an analyst at machine speed

Respond

Accelerate how analysts respond to threats using response playbooks, the pivot menu, and other types of automated workflows

Investigate

Fetch IOCs

IOCs can be gathered from any number of sources including threat research websites, blogs/RSS feeds, and so on

Investigate

Once we have IOCs, we can use XDR via workflows or APIs to investigate using integrated products

Notify

If sightings are found in the environment, we can let analysts know the threat has been seen and remediation is required

Respond

Identify

Determine which observables to act against and which action to take

Act

Take the specified action leveraging products integrated with XDR as control points

Investigate and Respond

Fetch IOCs

IOCs can be gathered from any number of sources including threat research websites, blogs/RSS feeds, and so on

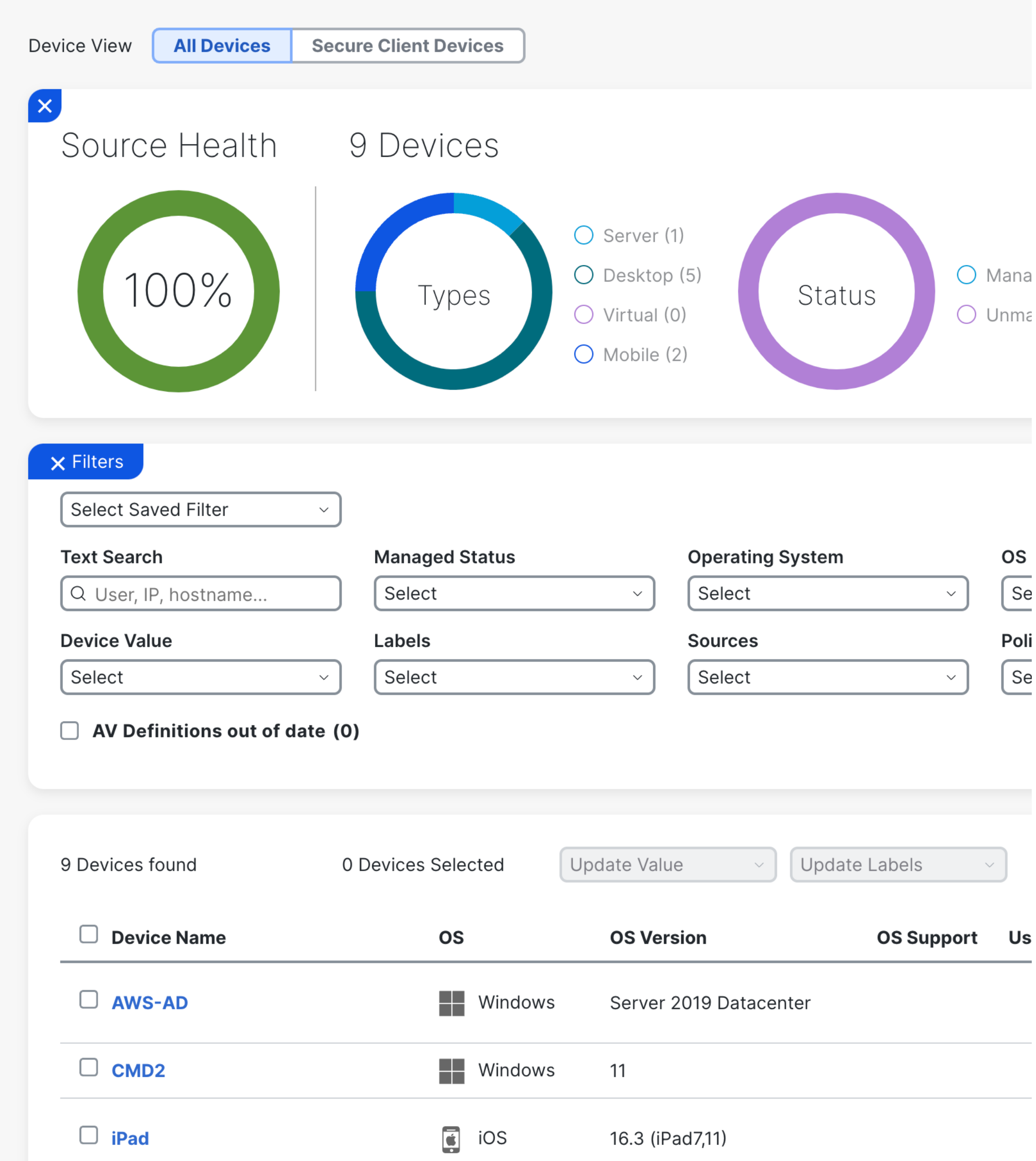
Investigate

Once we have IOCs, we can use XDR via workflows or APIs to investigate using integrated products

Respond

Take the specified action leveraging products integrated with XDR as control points

Devices



Text Search: User, IP, hostname...

Managed Status: Select

Operating System: Select

OS: Se

Device Value: Select

Labels: Select

Sources: Select

Poli: Se

□ AV Definitions out of date (0)

9 Devices found

0 Devices Selected

□	Device Name	OS	OS Version	OS Support	Us
□	AWS-AD	Windows	Server 2019 Datacenter		
□	CMD2	Windows	11		
□	iPad	iOS	16.3 (iPad7,11)		

Devices

Extensive visibility into your devices

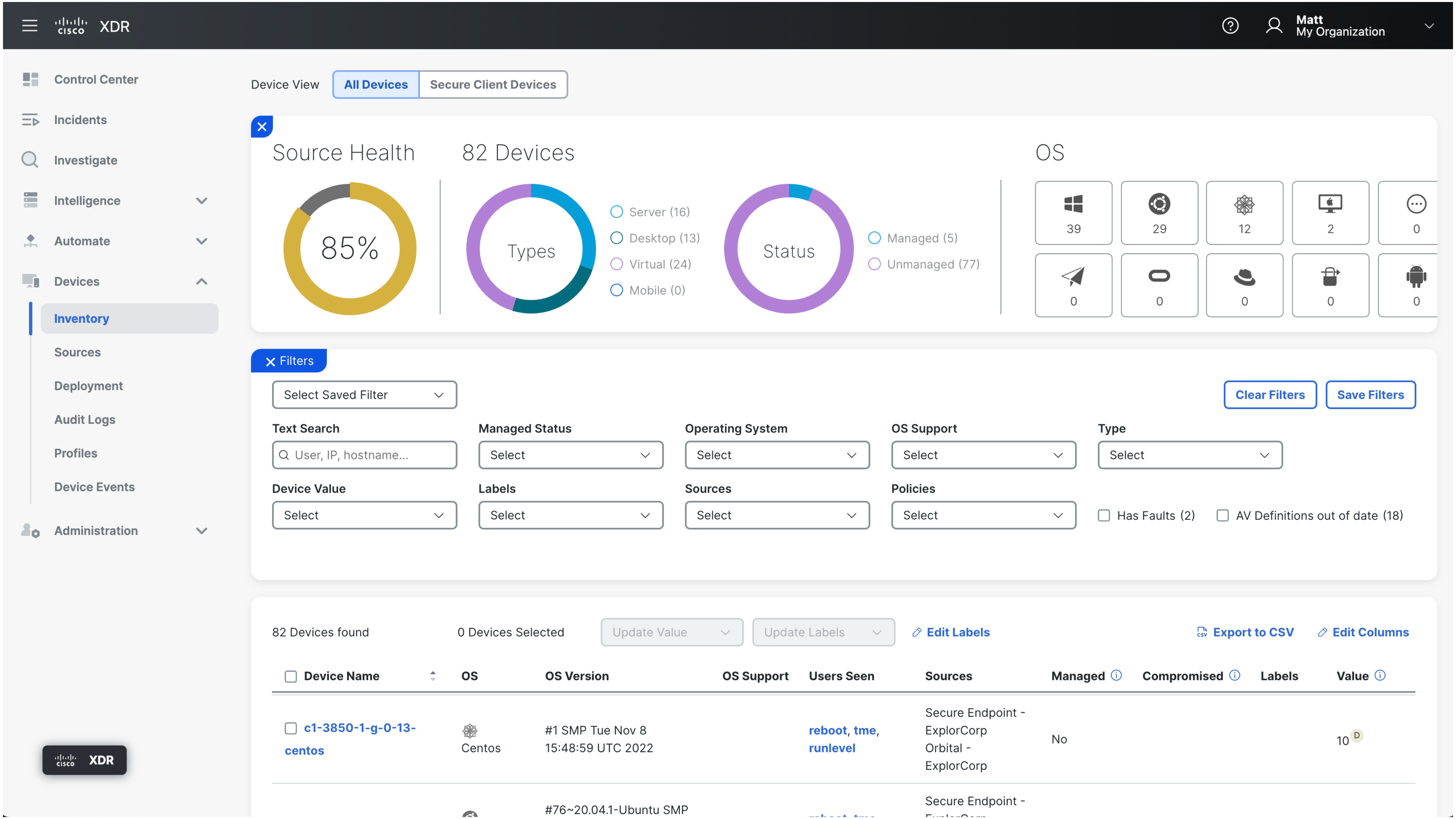
Combined inventory from both security and device management products

Provides asset context to investigations

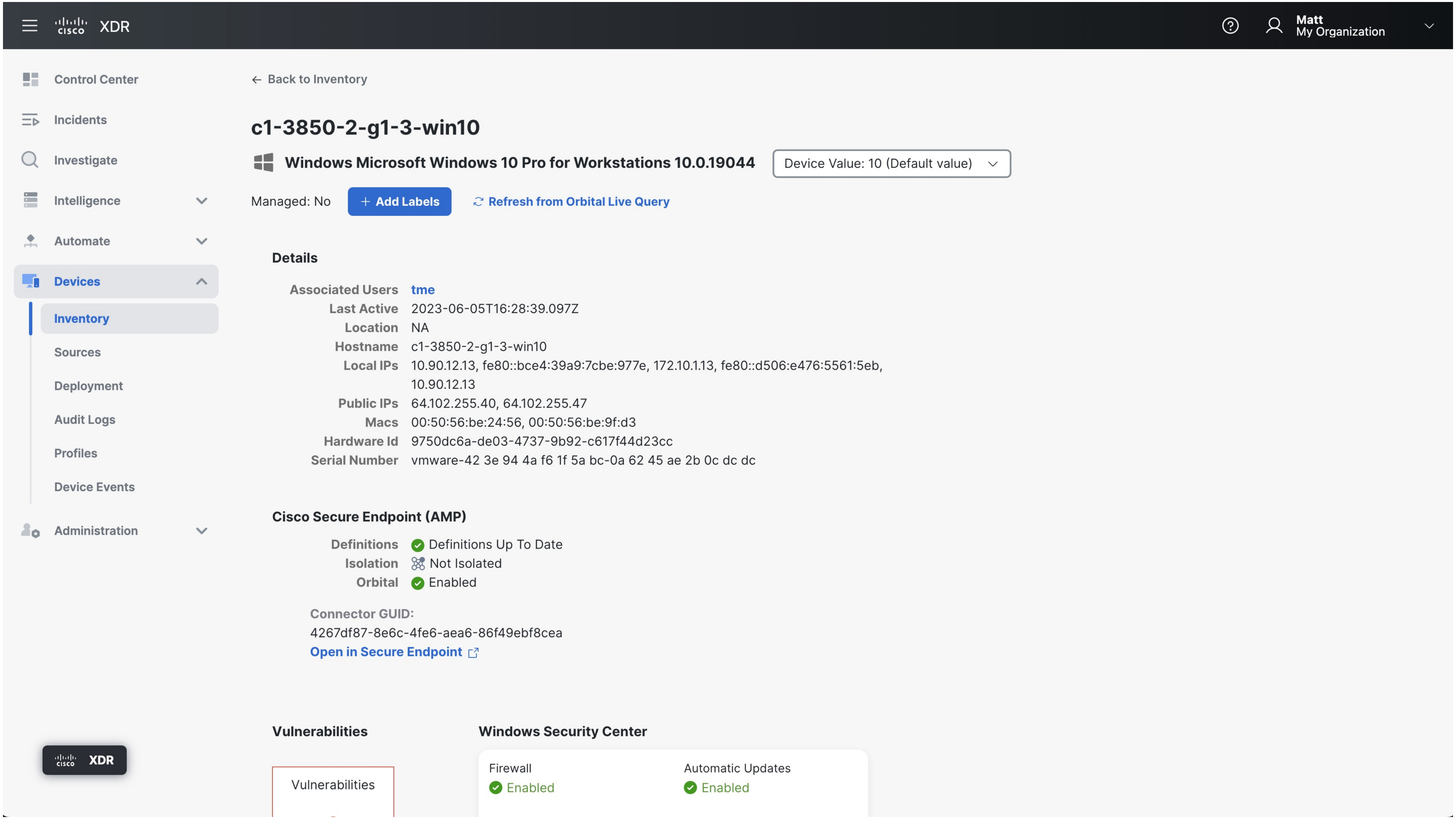
Differentiate between a generic target and an asset that belongs to you

Configuration and management of Cisco Secure Client

Cloud-based management of Secure Client profiles and deployments



□ Device Name	OS	OS Version	OS Support	Users Seen	Sources	Managed	Compromised	Labels	Value
□ c1-3850-1-g-0-13-centos	Centos	#1 SMP Tue Nov 8 15:48:59 UTC 2022		reboot, tme, runlevel	Secure Endpoint - ExplorCorp Orbital - ExplorCorp	No			10 D
		#76~20.04.1-Ubuntu SMP			Secure Endpoint -				



c1-3850-2-g1-3-win10

Windows Microsoft Windows 10 Pro for Workstations 10.0.19044

Device Value: 10 (Default value)

Managed: No

Details

Associated Users	tme
Last Active	2023-06-05T16:28:39.097Z
Location	NA
Hostname	c1-3850-2-g1-3-win10
Local IPs	10.90.12.13, fe80::bce4:39a9:7cbe:977e, 172.10.1.13, fe80::d506:e476:5561:5eb, 10.90.12.13
Public IPs	64.102.255.40, 64.102.255.47
Macs	00:50:56:be:24:56, 00:50:56:be:9f:d3
Hardware Id	9750dc6a-de03-4737-9b92-c617f44d23cc
Serial Number	vmware-42 3e 94 4a f6 1f 5a bc-0a 62 45 ae 2b 0c dc dc

Cisco Secure Endpoint (AMP)

Definitions	✓ Definitions Up To Date
Isolation	Not Isolated
Orbital	✓ Enabled

Connector GUID:
4267df87-8e6c-4fe6-aea6-86f49ebf8cea

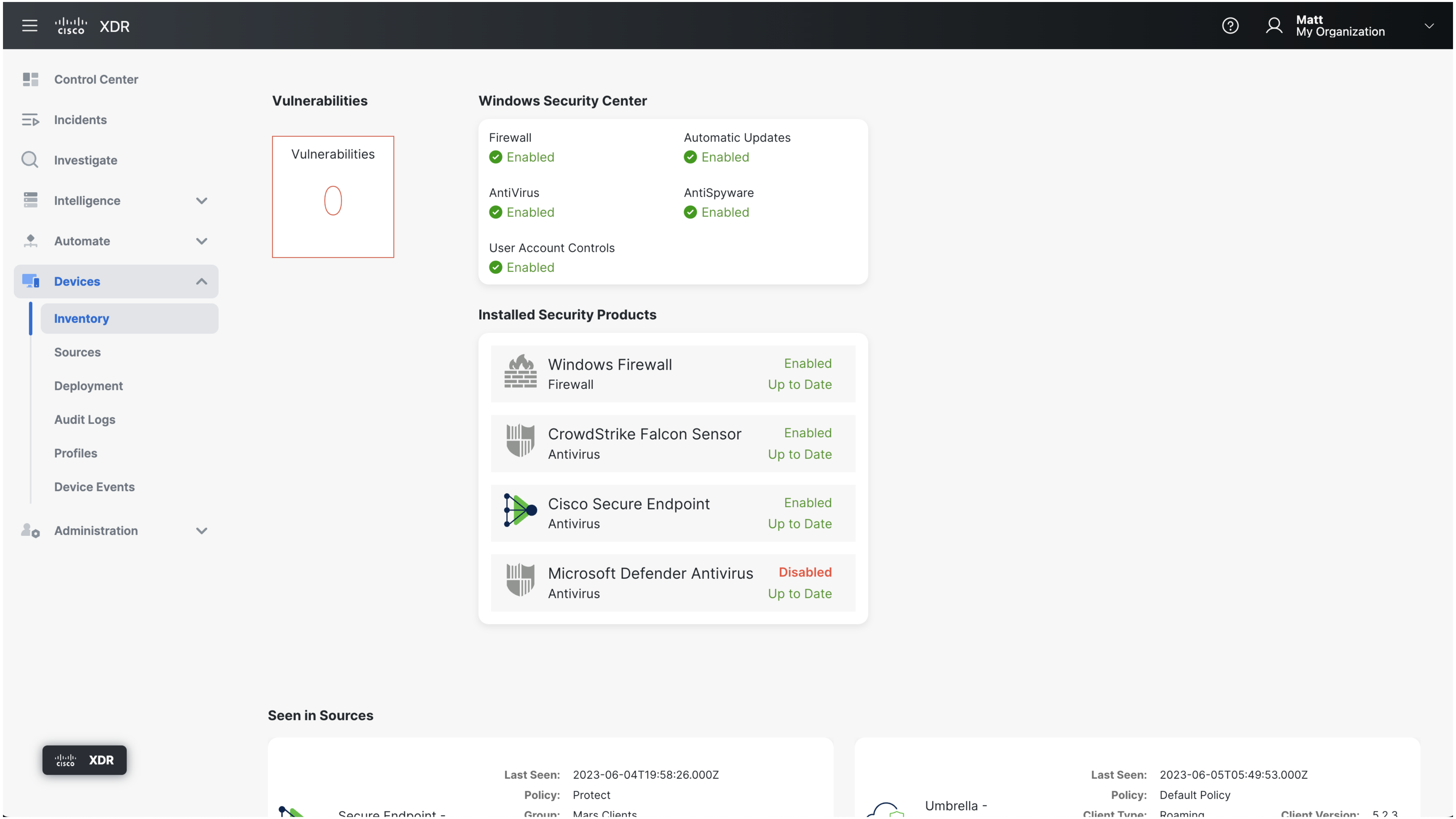
Open in Secure Endpoint

Vulnerabilities

Vulnerabilities

Windows Security Center

Firewall	Automatic Updates
✓ Enabled	✓ Enabled



Vulnerabilities

Vulnerabilities
0

Windows Security Center

Firewall ✓ Enabled	Automatic Updates ✓ Enabled
AntiVirus ✓ Enabled	AntiSpyware ✓ Enabled
User Account Controls ✓ Enabled	

Installed Security Products

Windows Firewall Firewall	Enabled Up to Date
CrowdStrike Falcon Sensor Antivirus	Enabled Up to Date
Cisco Secure Endpoint Antivirus	Enabled Up to Date
Microsoft Defender Antivirus Antivirus	Disabled Up to Date

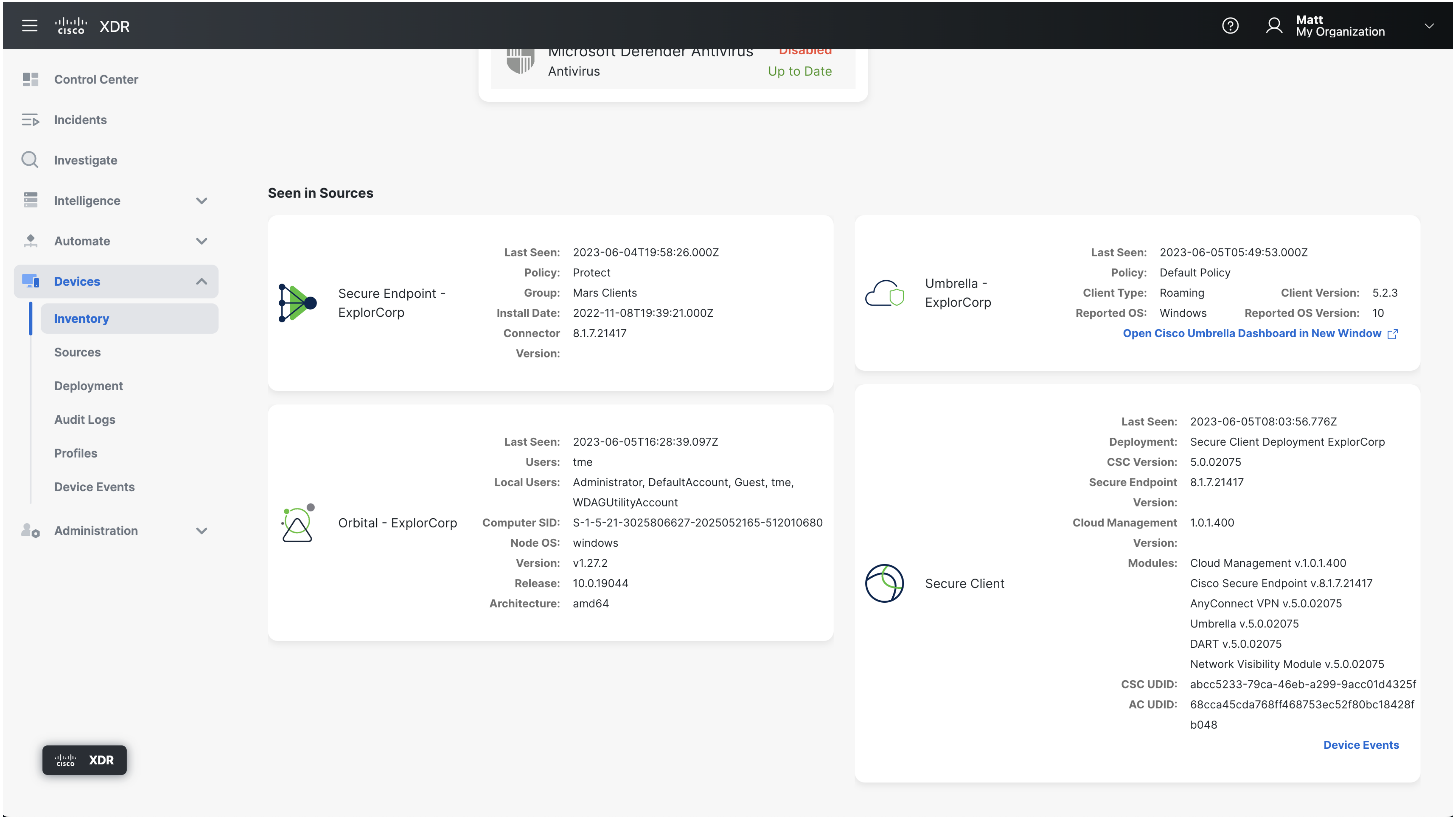
Seen in Sources

Secure Endpoint -

Last Seen: 2023-06-04T19:58:26.000Z
Policy: Protect
Group: Mars Clients

Umbrella -

Last Seen: 2023-06-05T05:49:53.000Z
Policy: Default Policy
Client Type: Roaming
Client Version: 5.2.3



Microsoft Defender Antivirus — Disabled
Antivirus — Up to Date

Seen in Sources

Secure Endpoint - ExplorCorp

Last Seen:	2023-06-04T19:58:26.000Z
Policy:	Protect
Group:	Mars Clients
Install Date:	2022-11-08T19:39:21.000Z
Connector Version:	8.1.7.21417

Umbrella - ExplorCorp

Last Seen:	2023-06-05T05:49:53.000Z		
Policy:	Default Policy		
Client Type:	Roaming	Client Version:	5.2.3
Reported OS:	Windows	Reported OS Version:	10

Open Cisco Umbrella Dashboard in New Window

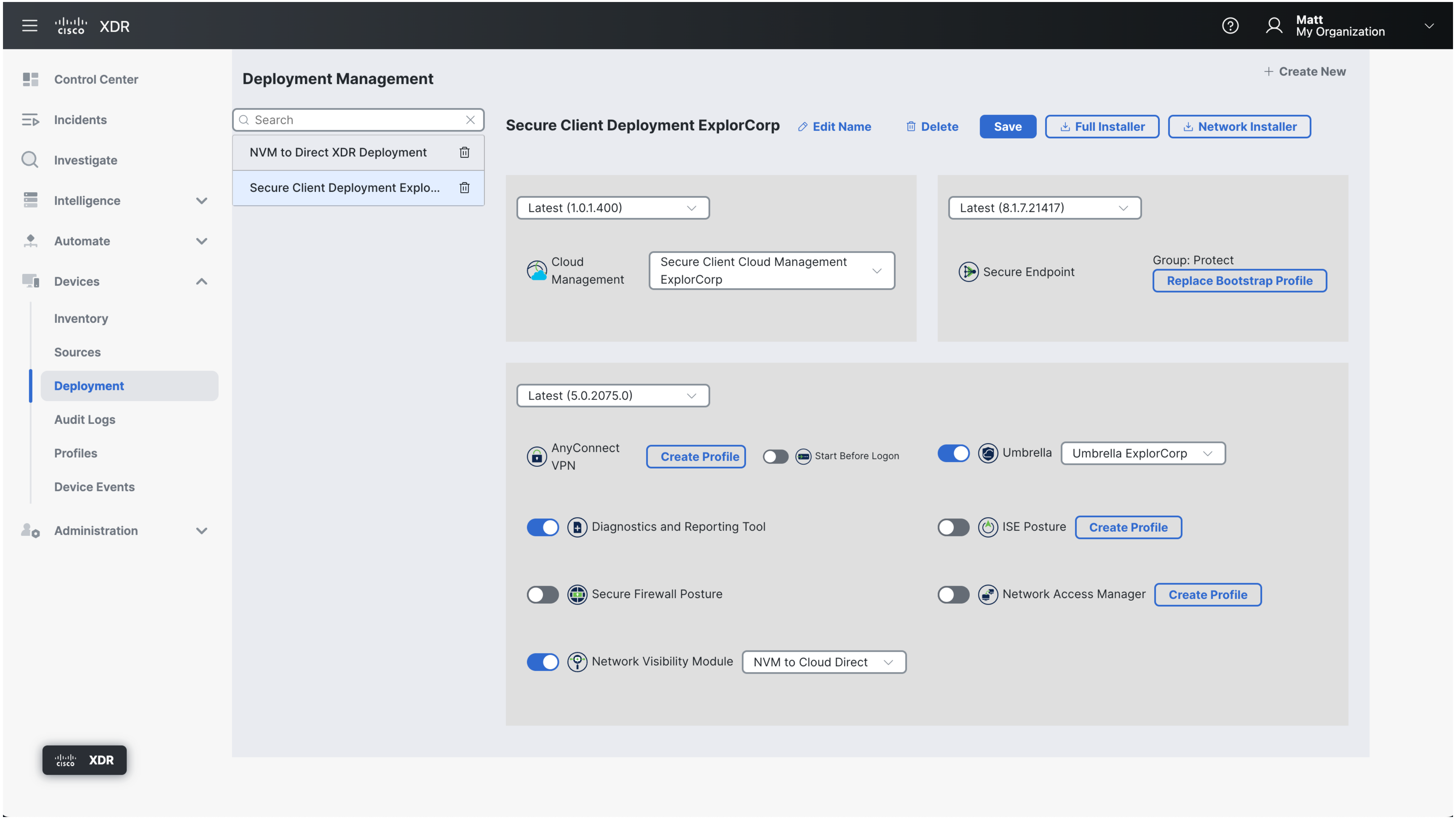
Orbital - ExplorCorp

Last Seen:	2023-06-05T16:28:39.097Z
Users:	tme
Local Users:	Administrator, DefaultAccount, Guest, tme, WDAGUtilityAccount
Computer SID:	S-1-5-21-3025806627-2025052165-512010680
Node OS:	windows
Version:	v1.27.2
Release:	10.0.19044
Architecture:	amd64

Secure Client

Last Seen:	2023-06-05T08:03:56.776Z
Deployment:	Secure Client Deployment ExplorCorp
CSC Version:	5.0.02075
Secure Endpoint Version:	8.1.7.21417
Cloud Management Version:	1.0.1.400
Modules:	Cloud Management v.1.0.1.400 Cisco Secure Endpoint v.8.1.7.21417 AnyConnect VPN v.5.0.02075 Umbrella v.5.0.02075 DART v.5.0.02075 Network Visibility Module v.5.0.02075
CSC UDID:	abcc5233-79ca-46eb-a299-9acc01d4325f
AC UDID:	68cca45cda768ff468753ec52f80bc18428fb048

Device Events



Deployment Management

NVM to Direct XDR Deployment

Secure Client Deployment Explo...

Secure Client Deployment ExplorCorp

Latest (1.0.1.400)

Cloud Management: Secure Client Cloud Management ExplorCorp

Latest (8.1.7.21417)

Secure Endpoint: Group: Protect

Latest (5.0.2075.0)

AnyConnect VPN

Start Before Logon: Off

Umbrella: On, Umbrella ExplorCorp

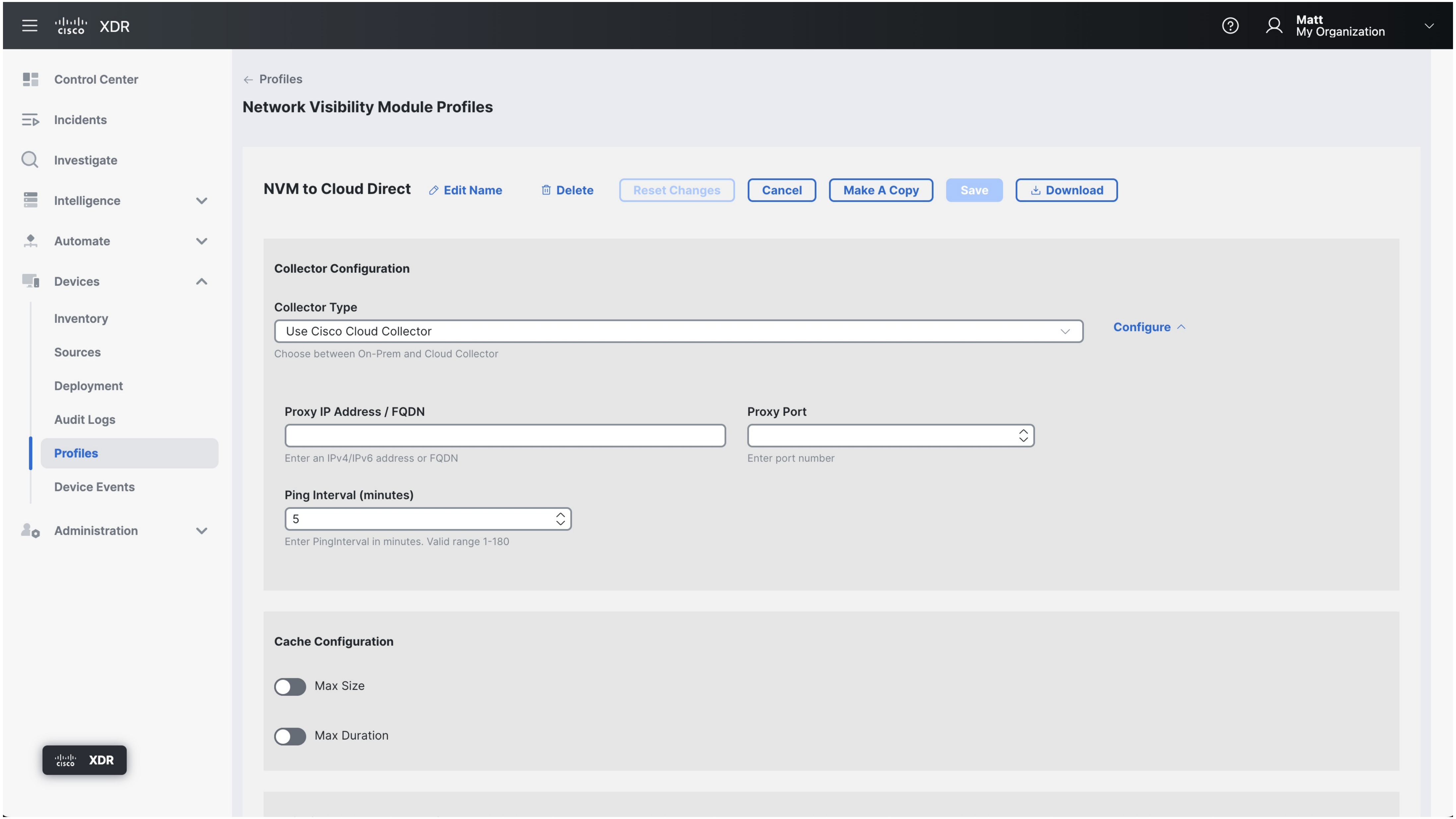
Diagnostics and Reporting Tool: On

ISE Posture: Off

Secure Firewall Posture: Off

Network Access Manager: Off

Network Visibility Module: On, NVM to Cloud Direct



← Profiles

Network Visibility Module Profiles

NVM to Cloud Direct

Collector Configuration

Collector Type: Use Cisco Cloud Collector

Choose between On-Prem and Cloud Collector

Proxy IP Address / FQDN:

Enter an IPv4/IPv6 address or FQDN

Proxy Port:

Enter port number

Ping Interval (minutes): 5

Enter PingInterval in minutes. Valid range 1-180

Cache Configuration

Max Size

Max Duration

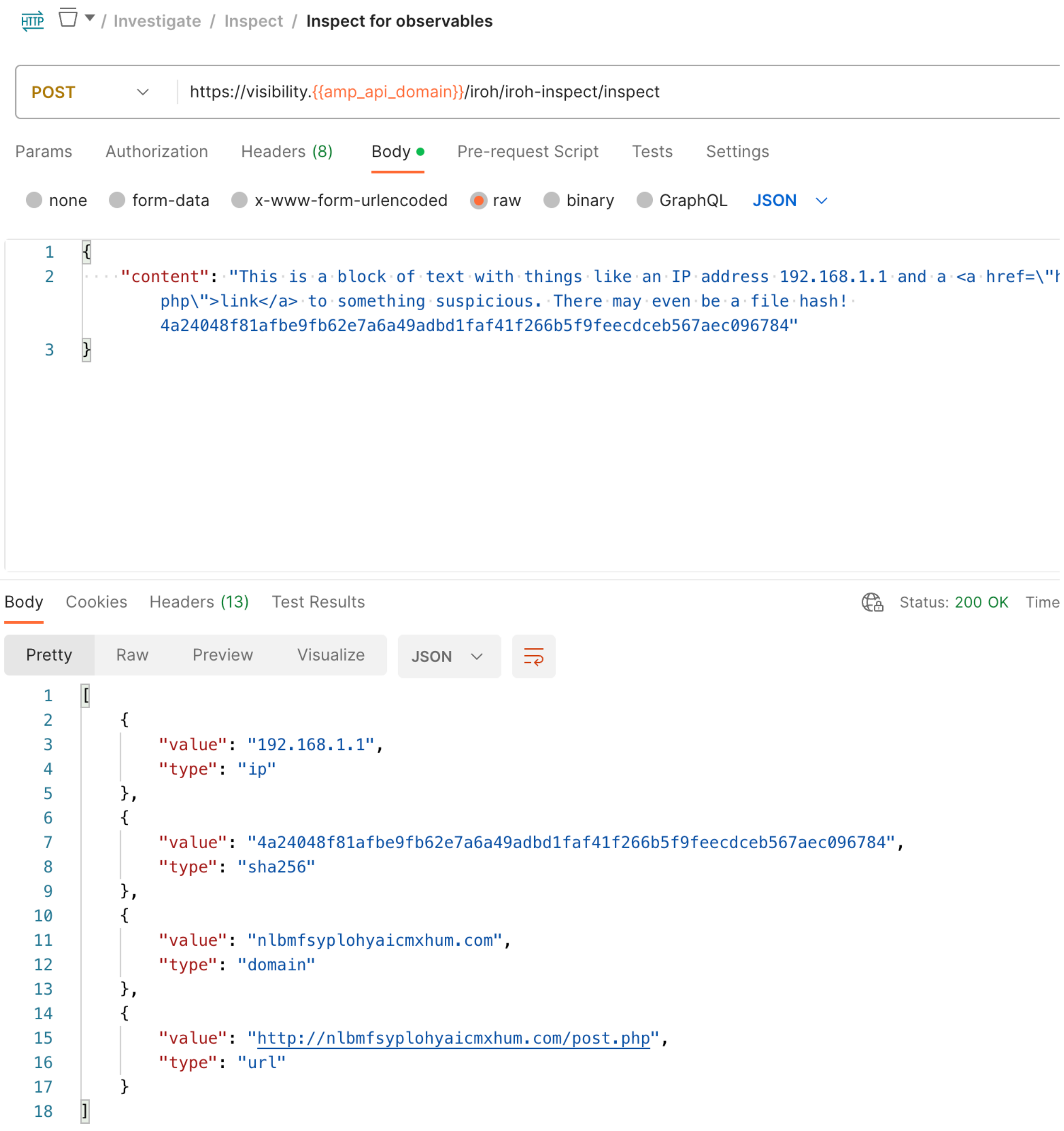
One more thing…

XDR has a robust set of APIs!

- We have APIs for:
  - Threat intelligence
    - Private and public databases of threat intel
  - Investigation
    - Inspect content for observables
    - Enrich data using your integrated products
  - Response
    - Act on observables you know to be dangerous
  - Automation
    - Trigger workflows in XDR to do just about anything you want

XDR Inspect API

- Takes an arbitrary block of text and extracts observables from it
- Simple and easy way to extract things to investigate from content like emails, blog posts, threat intel websites, and more…



POST https://visibility.{{amp_api_domain}}/iroh/iroh-inspect/inspect

```
{
    "content": "This is a block of text with things like an IP address 192.168.1.1 and a <a href=\"h
        php\">link</a> to something suspicious. There may even be a file hash!
        4a24048f81afbe9fb62e7a6a49adbd1faf41f266b5f9feecdceb567aec096784"
}
```

```
[
    {
        "value": "192.168.1.1",
        "type": "ip"
    },
    {
        "value": "4a24048f81afbe9fb62e7a6a49adbd1faf41f266b5f9feecdceb567aec096784",
        "type": "sha256"
    },
    {
        "value": "nlbmfsyplohyaicmxhum.com",
        "type": "domain"
    },
    {
        "value": "http://nlbmfsyplohyaicmxhum.com/post.php",
        "type": "url"
    }
]
```

Resources

https://cisco.com/go/xdr

Getting started

Where can you learn more about Cisco XDR?

- Cisco XDR At a Glance
- An XDR Primer: The Promise of Simplifying Security Operations Position Paper
- Cisco XDR: Security Operations Simplified eBook
- Five Ways to Experience XDR eBook
- Cisco XDR Overview Video
- XDR Buyer's Guide

Cisco XDR on Cisco.com

The bridge to possible

Děkuji za pozornost

Q & A