

CISCO
SECURE

 CISCO The bridge to possible

Cisco XDR

Tech Club

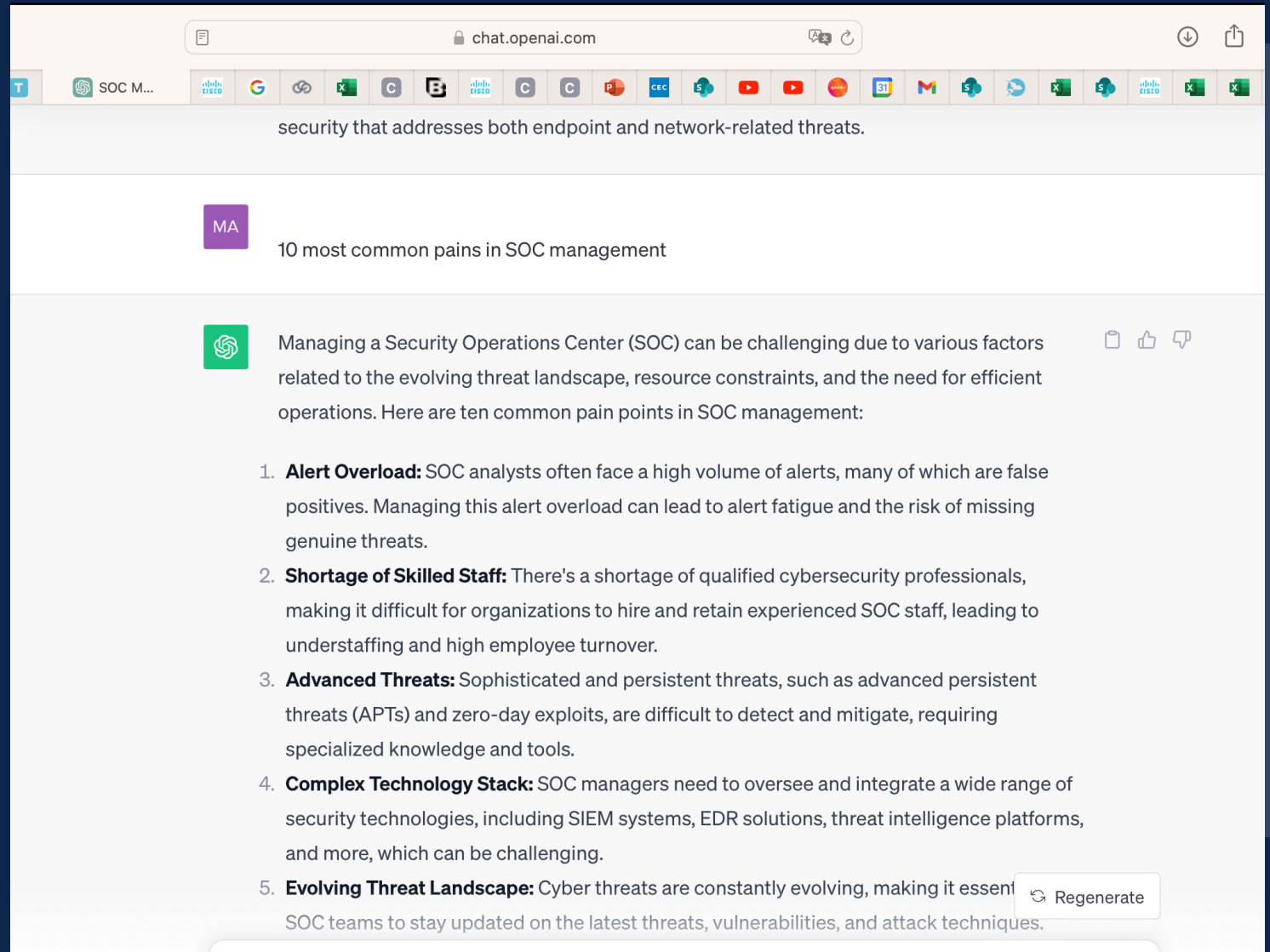
Jiří Tesař

TSA Security, jitesar@cisco.com

6.2.2024



Most common pains



The screenshot shows a web browser window with the address bar at chat.openai.com. The page content includes a user message and a GPT-4 response. The user message asks for the 10 most common pains in SOC management. The GPT-4 response provides an overview and lists five key pain points: Alert Overload, Shortage of Skilled Staff, Advanced Threats, Complex Technology Stack, and Evolving Threat Landscape. A 'Regenerate' button is visible at the bottom right of the response area.

security that addresses both endpoint and network-related threats.

MA 10 most common pains in SOC management

Managing a Security Operations Center (SOC) can be challenging due to various factors related to the evolving threat landscape, resource constraints, and the need for efficient operations. Here are ten common pain points in SOC management:

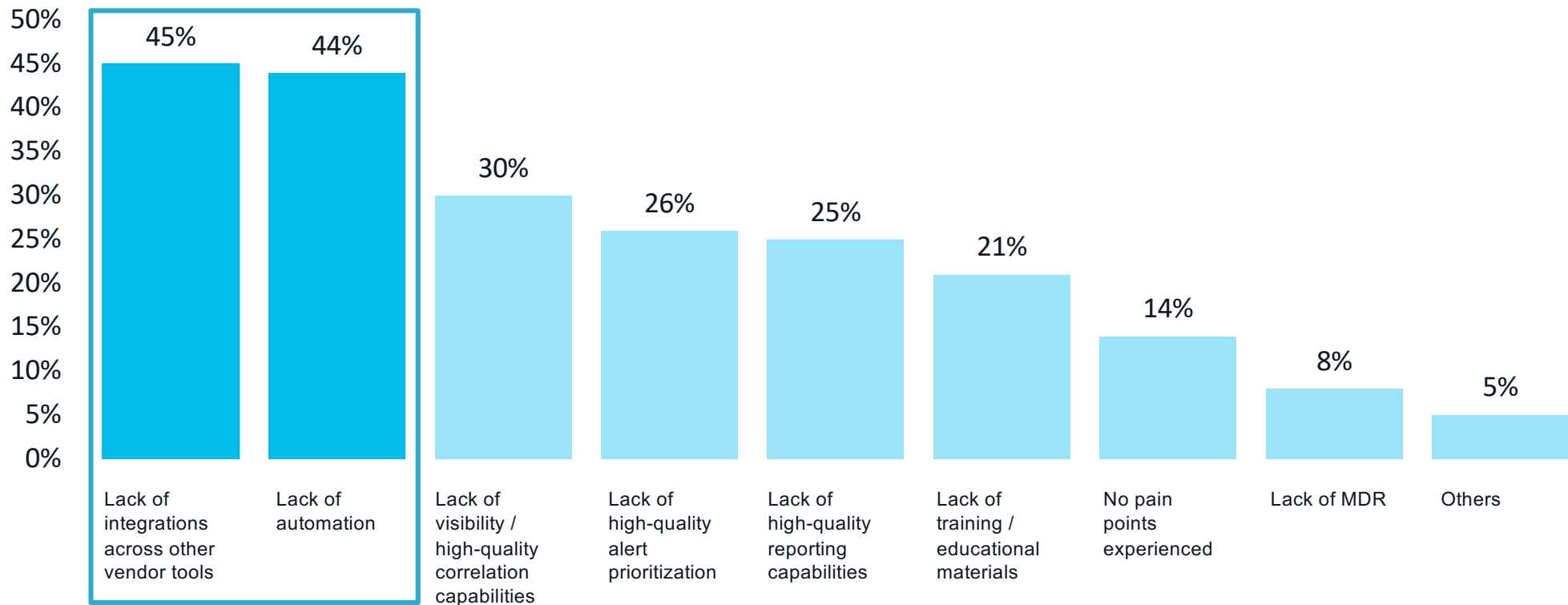
1. **Alert Overload:** SOC analysts often face a high volume of alerts, many of which are false positives. Managing this alert overload can lead to alert fatigue and the risk of missing genuine threats.
2. **Shortage of Skilled Staff:** There's a shortage of qualified cybersecurity professionals, making it difficult for organizations to hire and retain experienced SOC staff, leading to understaffing and high employee turnover.
3. **Advanced Threats:** Sophisticated and persistent threats, such as advanced persistent threats (APTs) and zero-day exploits, are difficult to detect and mitigate, requiring specialized knowledge and tools.
4. **Complex Technology Stack:** SOC managers need to oversee and integrate a wide range of security technologies, including SIEM systems, EDR solutions, threat intelligence platforms, and more, which can be challenging.
5. **Evolving Threat Landscape:** Cyber threats are constantly evolving, making it essential for SOC teams to stay updated on the latest threats, vulnerabilities, and attack techniques.

Regenerate

Most common pains









1. Alert Overload
2. Shortage of Skilled Staff
3. Advanced Threats
4. Complex Technology Stack
5. Evolving Threat Landscape
6. Budget Constraints
7. Regulatory Compliance
8. Incident Response Coordination
9. Retaining Talent
10. Legacy Systems

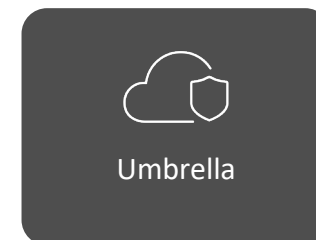
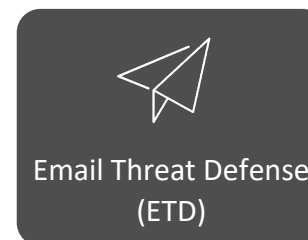
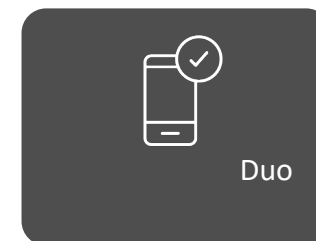
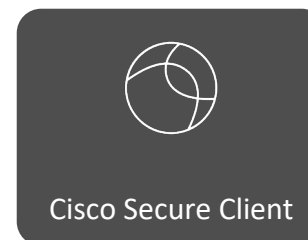
Lack of integration and automation are the most widespread pain points for existing XDR solutions



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% |



Definition of Extended Detection and Response (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



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

ANYTHING Detection and Response

EDR

ENDPOINT DETECTION AND RESPONSE

Endpoint installation agent needed.

NDR

NETWORK DETECTION AND RESPONSE

Network detection and response for north/south and east/west traffic.

No agent needed

Behavioural analysis.

XDR

EXTENDED DETECTION AND RESPONSE

Correlation of different sources.

multi-vendor, cloud and on – premise.

Prioritization of events based on business impact.

Automated response.

MDR

MANAGED DETECTION AND RESPONSE

Monitoring 24x7

Detection and Response Managed by vendor.

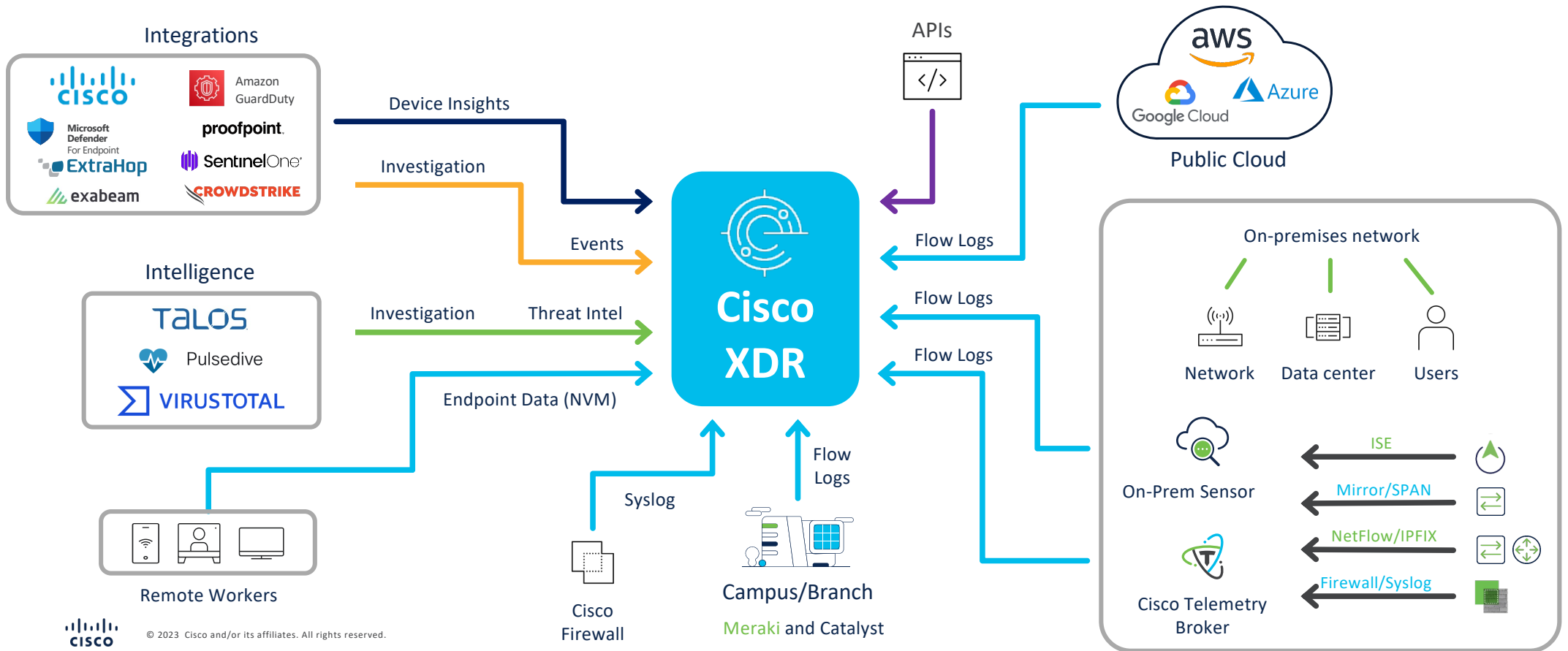
XDR vs SIEM

| Key differences | SIEM | XDR |
|-------------------------------------|---|--|
| SCOPE OF DATA COLLECTION | collecting, analyzing, and correlating log and event data from a wide range of sources, such as firewalls, IDS/IPS, endpoints, and applications | goes beyond log and event data and also collects and analyzes endpoint data, network traffic, and cloud-based data in real time |
| DETECTION AND RESPONSE CAPABILITIES | Event correlation and reporting to generate alerts | advanced threat detection and automated response. Machine learning/AI + behavioral analytics to detect threats in real time. |
| DATA CORRELATION | Correlation rules and filters | Advanced analytics |
| ALERT MANAGEMENT | Large number of alerts, manually triaged and prioritize by analysts. | built-in intelligence to reduce alert fatigue and prioritize incidents based on their severity and potential impact |
| REAL TIME RESPONSE | provides information for incident investigation and reporting but often lacks real-time response capabilities | allows for real-time incident response, enabling automated actions to be taken immediately upon detection of a threat, thereby minimizing the time between detection and response. |

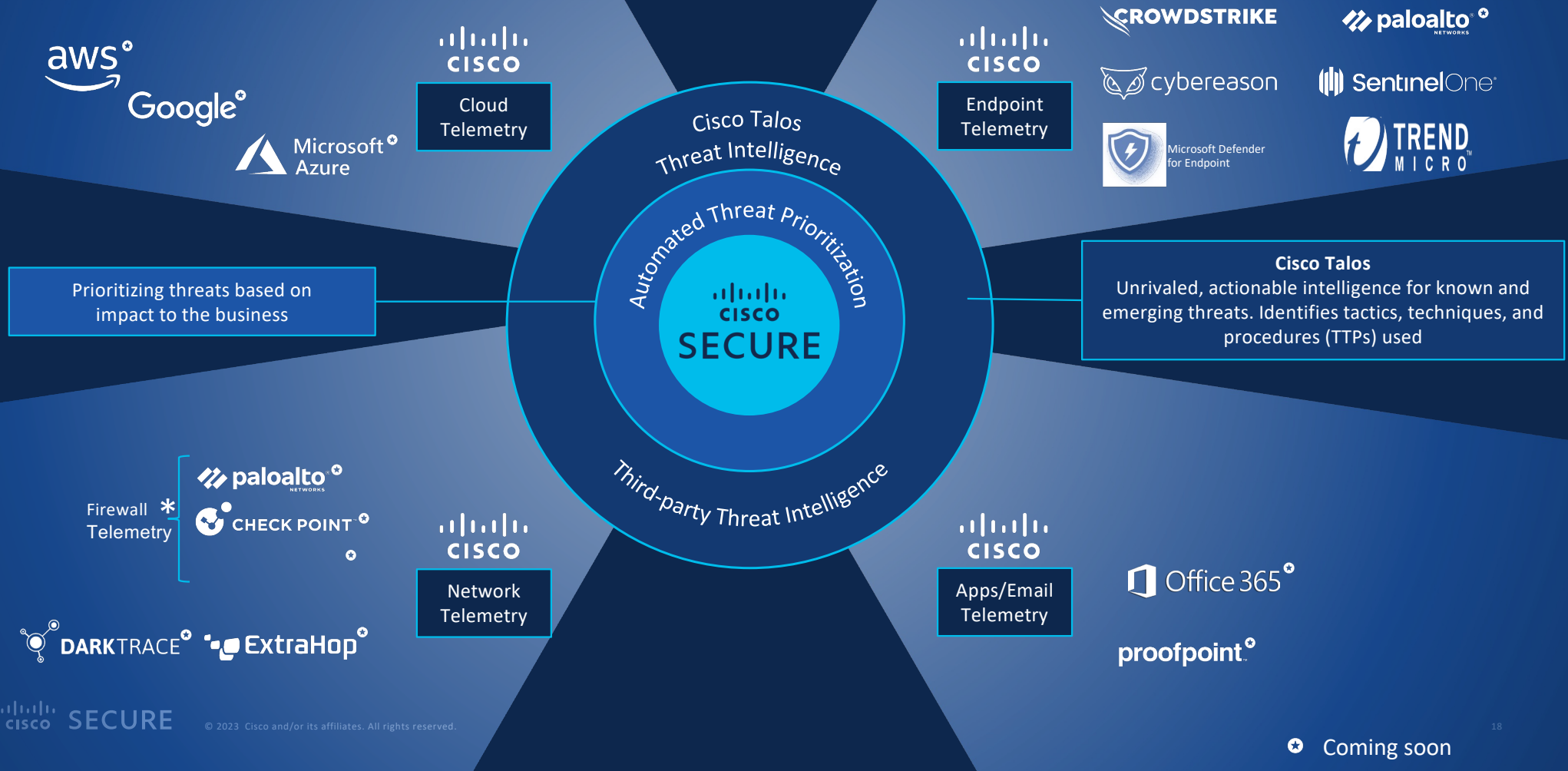
Extended context

Telemetry sources for Cisco XDR

Flexible integration for existing infrastructure



Strategic integrations to deliver customer outcomes



Business Needs



An XDR is an expression of business needs

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

1 Detect Sooner

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

Prioritize by Impact

2

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

3 Reduce Investigation Time

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

Accelerate Response

4

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

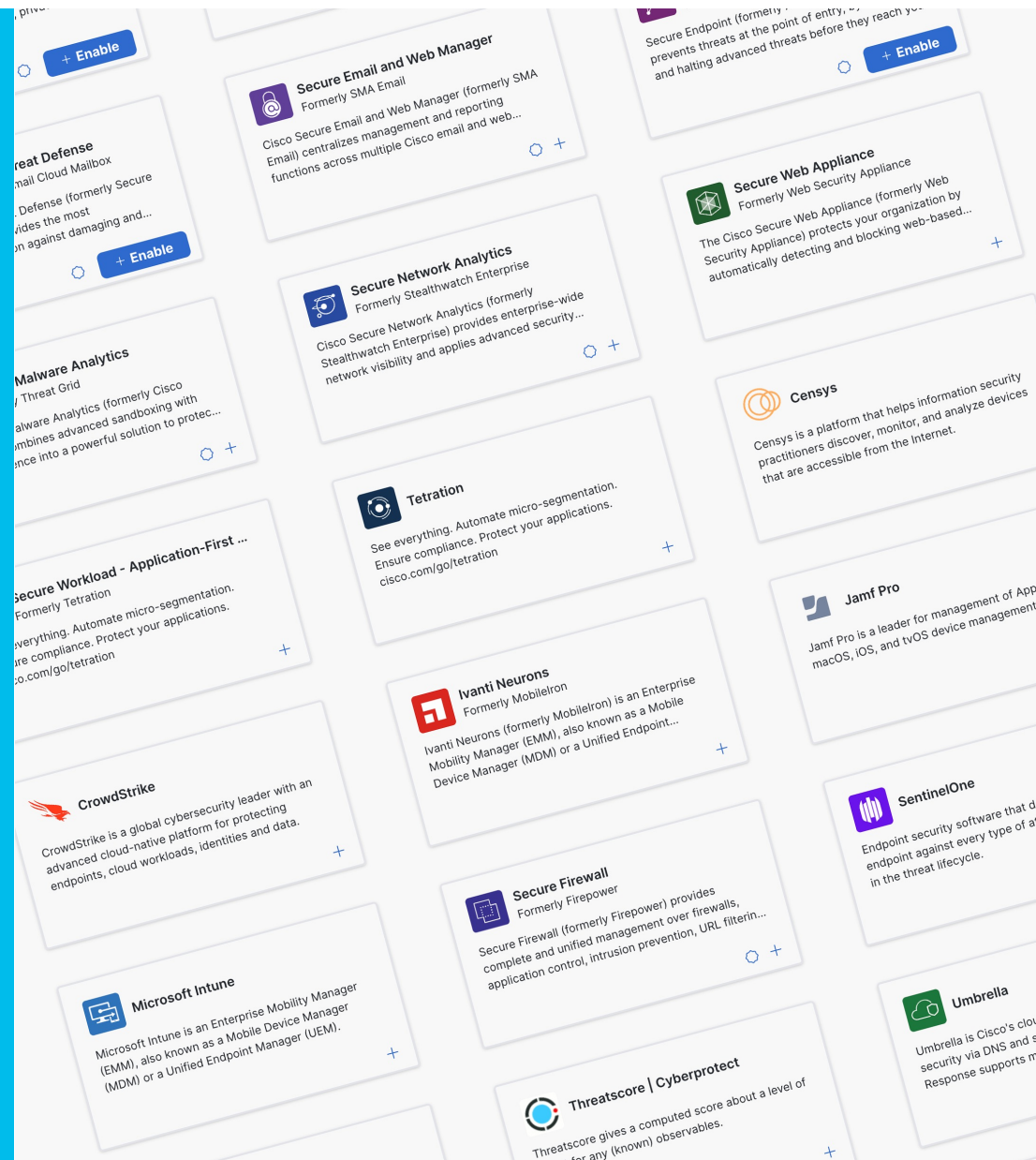
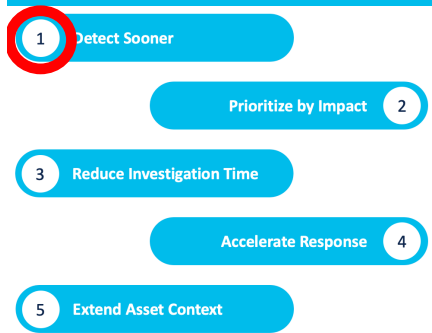
5 Extend Asset Context

Outcomes






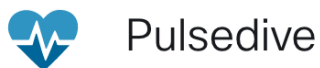
1) Detect sooner

- 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

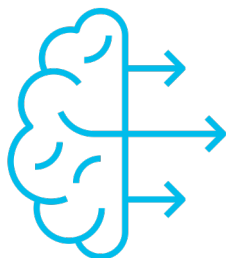


Enhanced detections with diverse intelligence

| | | | | | |
|--|-----------|------------|--|---------------|--------|
| 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 |



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

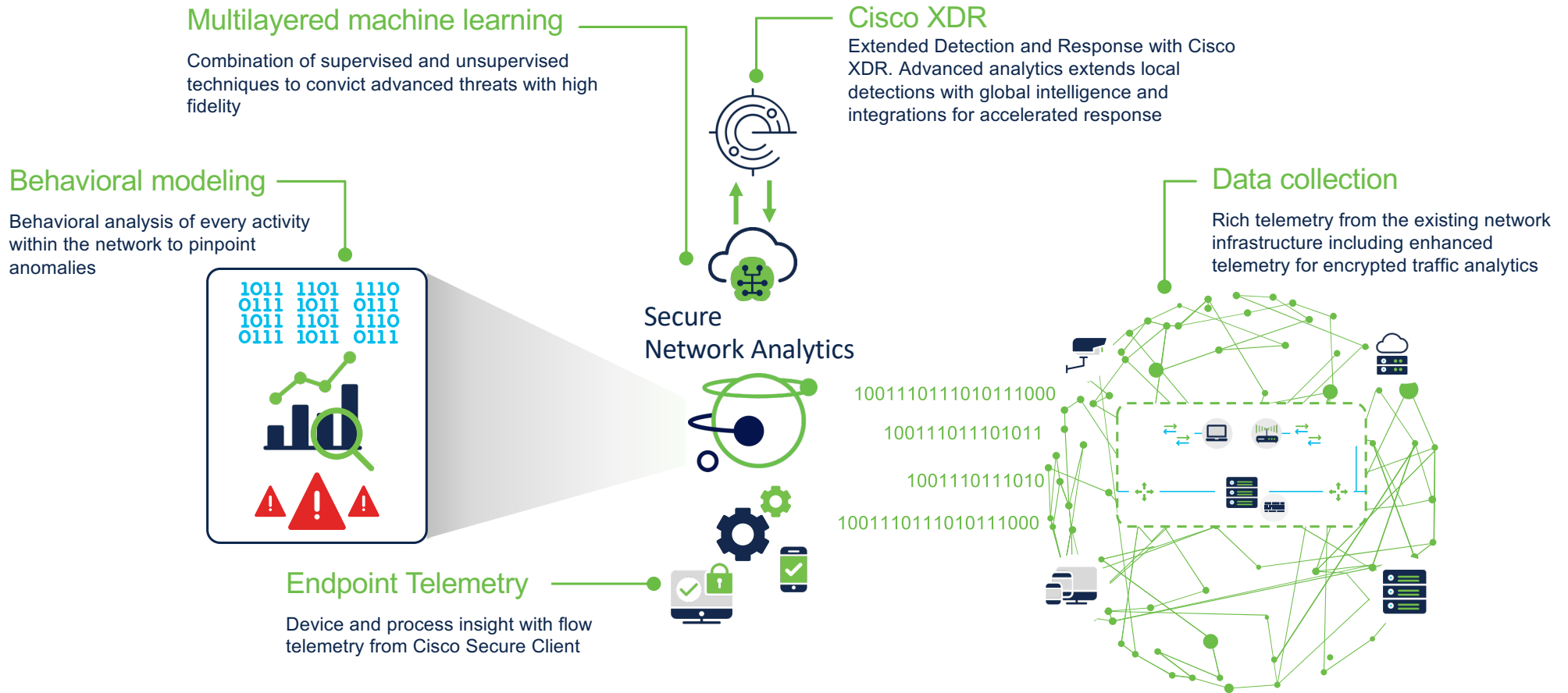
Judgements

Indicators

Feeds

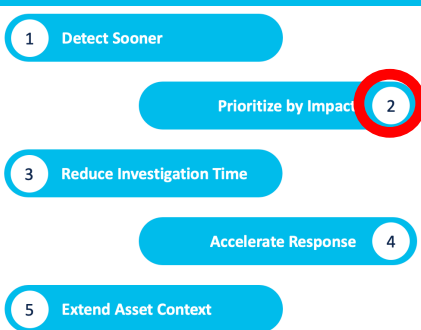
Events

Secure Network Analytics



2) 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



Incidents

62 Incidents

33 New Incidents

8 Open

Search

62 matching results

Filters

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

[View Incident Detail](#)

MITRE | ATT&CK View all Tactics

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

Orientation

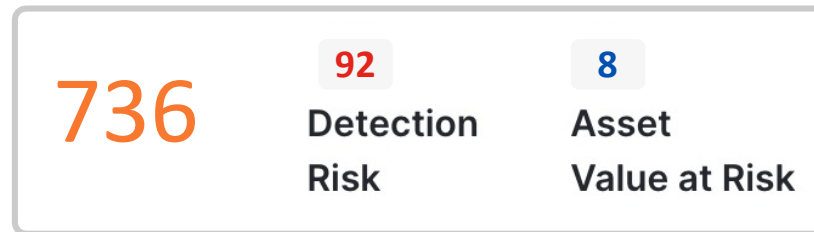
4 Assets

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

31 Observables

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

Identify the most impactful incidents based on risk



$$\text{Priority Score} = \text{Detection Risk} \times \text{Asset Value}$$

0-1000 0-100 0-10

The Incident total priority score used to prioritize incidents

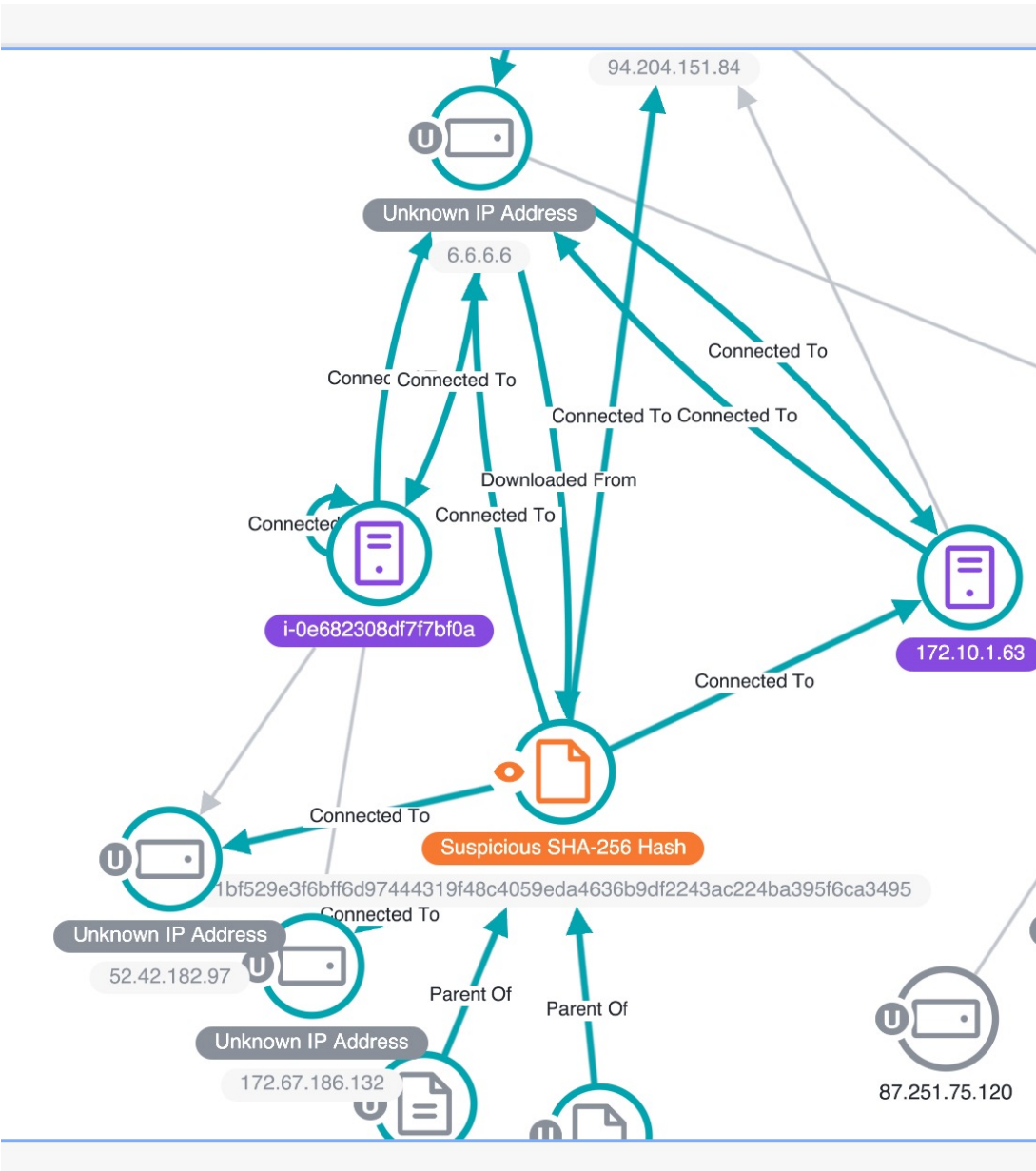
Detection Risk composed of multiple values:

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

User Defined Asset Value represent the value of the asset involved in the incident

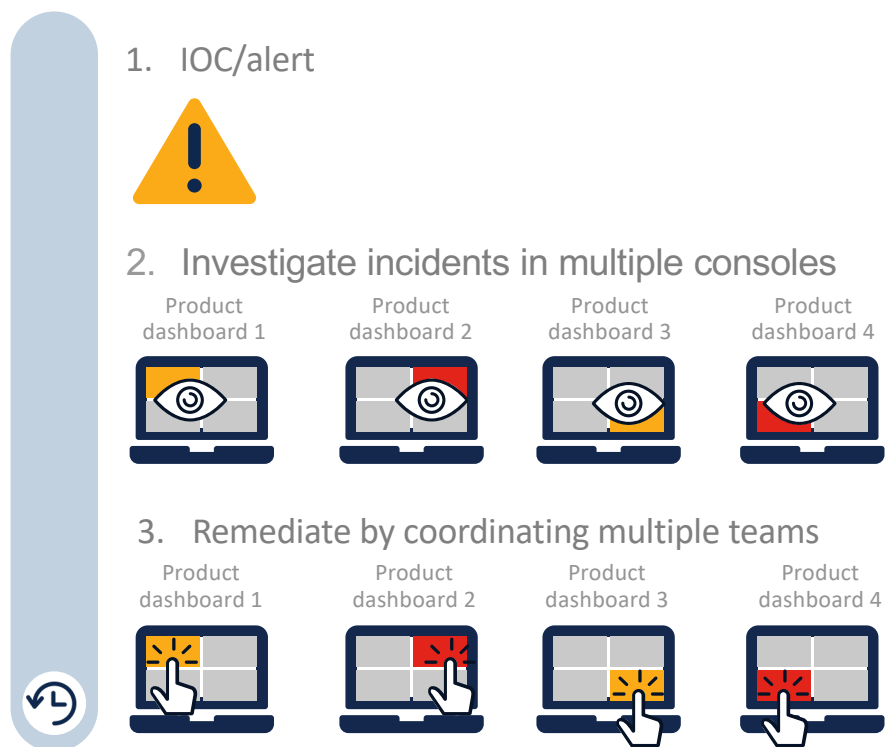
3) Reduce investigation time

- 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

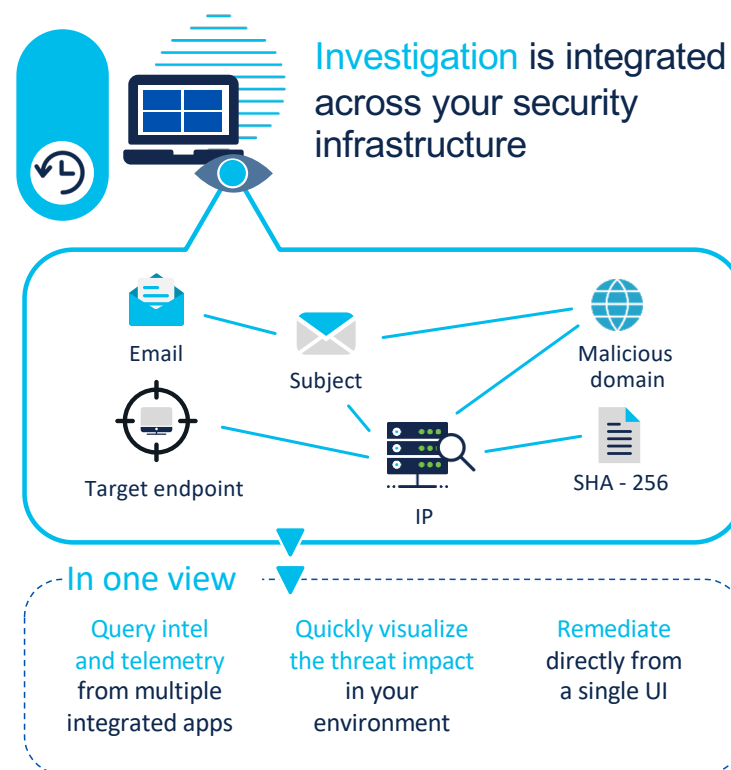


How true simplicity is experienced

Without XDR: 32 minutes



With XDR: five minutes



Confirm attacks sooner with alert correlation

| | | |
|---------------------|------|--------------------------|
| • 2023-03-13T16:... | High | Suspicious SMB and RDP |
| • 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

4) 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



Identify Affected Hosts

Add Note

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

Contain Incident: Overview

Add Note

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

Contain Incident: Assets

Select

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

This automation workflow 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

Add Note

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

Contain Incident: Domains

Select

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

This automation workflow 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.

Back

Go to Eradication →

Orchestration Workflows

Powerful, flexible automation



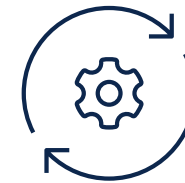
Response

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

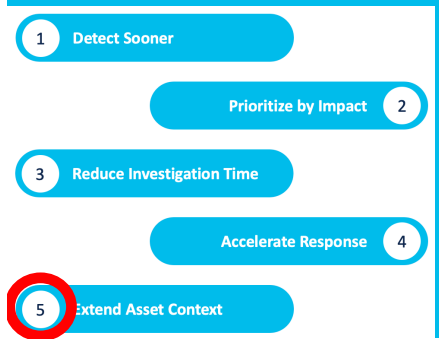


And more...

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

5) 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



Device View **All Devices** Secure Client Devices

Source Health 100% 13 Devices

Types: Server (1), Desktop (6), Virtual (1), Mobile (4)

Status: Managed (1), Unmanaged (12)

Filters

Select Saved Filter

Text Search: User, IP, hostname...

Managed Status: Select

Operating System: Select

OS Support: Select

Device Value: Select

Labels: Select

Sources: Select

Policies: Select

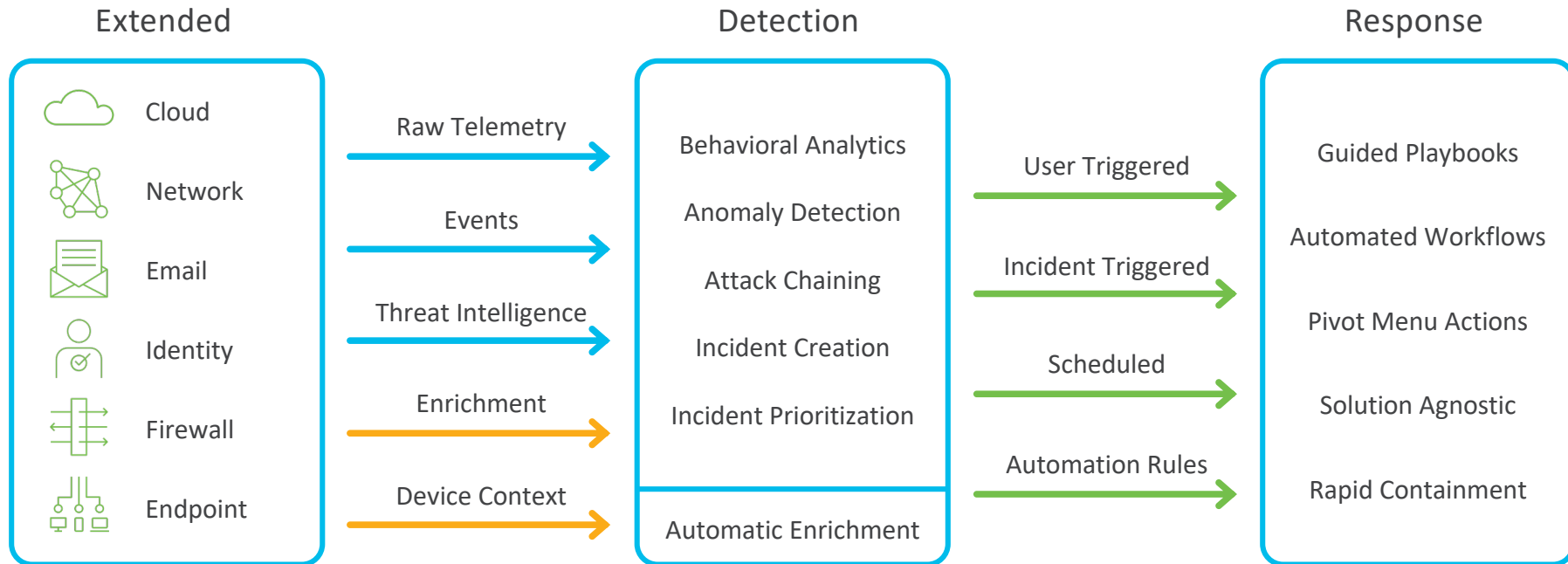
13 Devices found 0 Devices Selected Update Value Update Labels Edit Labels

| Device Name | OS | OS Version | OS Support | Users Seen | Sources |
|---|---------|------------------------|-------------|------------|------------------|
| <input type="checkbox"/> ATW iPad Pro12 | iOS | na | | | Jamf Prc |
| <input type="checkbox"/> ATW iPhone6Sp | iOS | na | | | Jamf Prc |
| <input type="checkbox"/> AWS-AD | Windows | Server 2019 Datacenter | | | AMP for Endpoint |
| <input type="checkbox"/> CMD2 | Windows | 11 | | | Umbrella |
| <input type="checkbox"/> iPad | iOS | 16.3 (iPad7,11) | Out of date | | AMP for Endpoint |
| <input type="checkbox"/> iPhone | iOS | 16.1 (iPhone12,5) | Out of date | | AMP for Endpoint |

Features



High level architecture



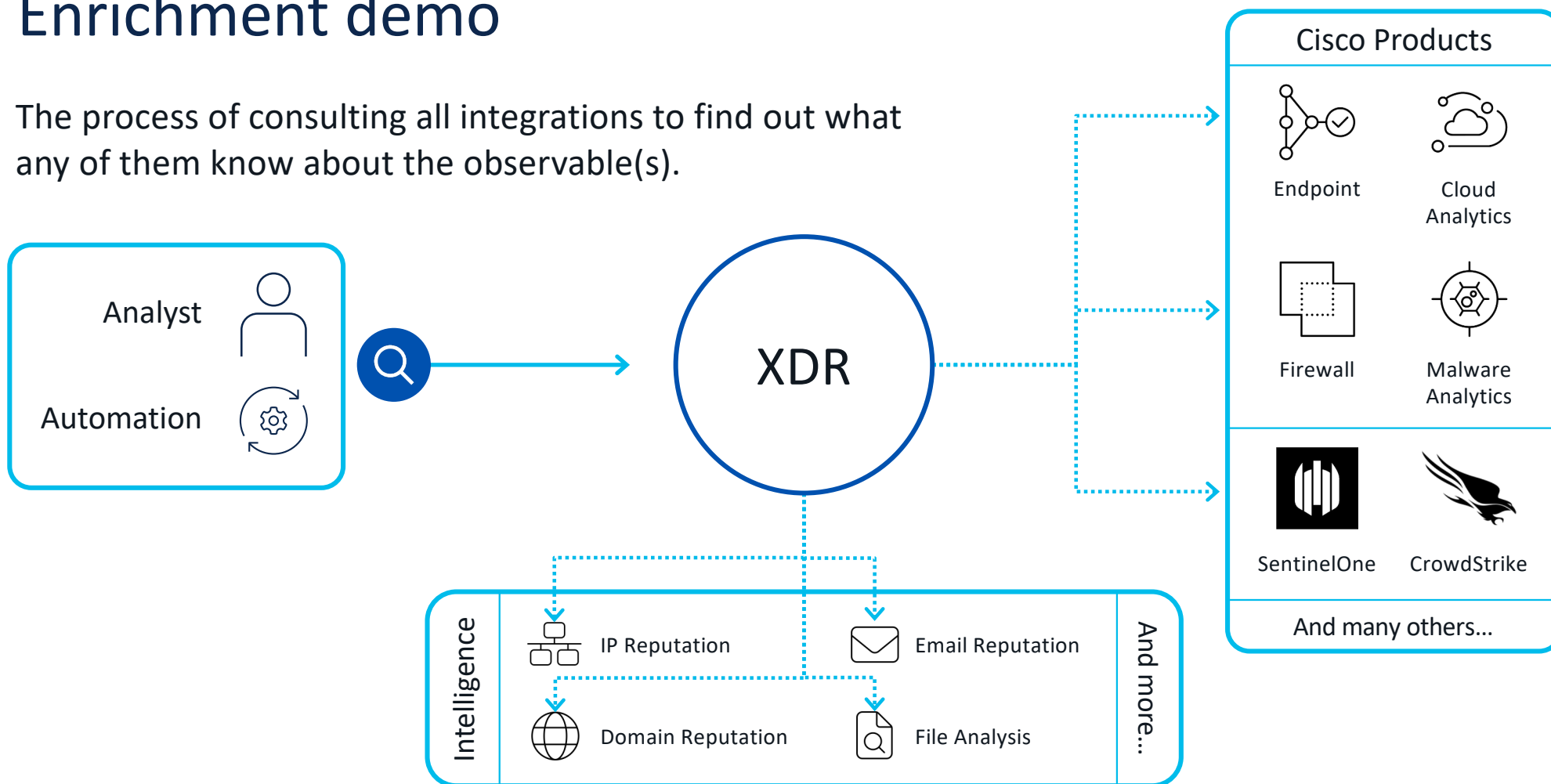
Multi-vector telemetry ingest network, cloud, endpoint, email, and more from Cisco and 3rd party

Cross domain alert detections and attack chaining with automated incident prioritization and enrichment

Automated or user triggered responses to block observables using any integrated technology

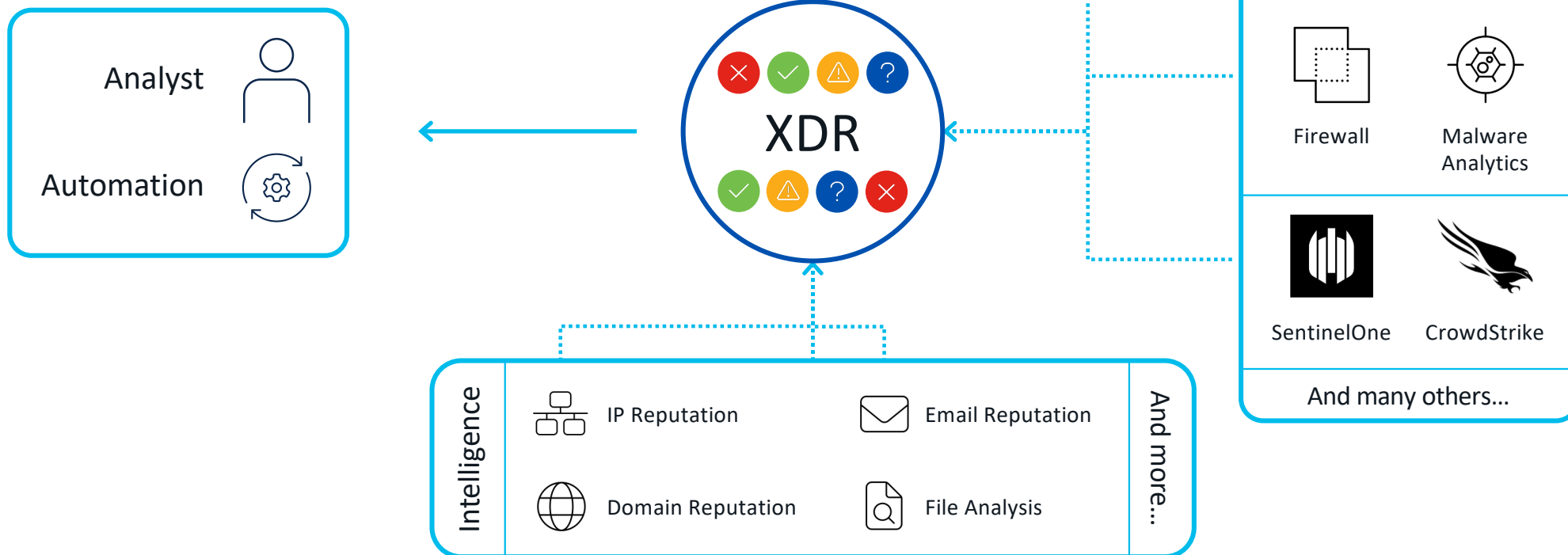
Enrichment demo

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

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

Incident response in four stages

Identify



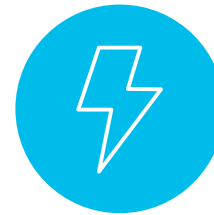
Review the incident and confirm the findings

Contain



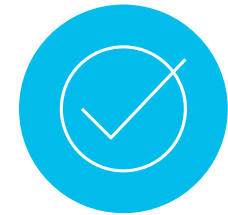
Act against impacted hosts, domains, files, etc.

Eradicate



Remediate vulnerabilities and remove malicious content

Recover



Validate remediation and restore impacted services

Control Center

Incidents

Investigate

Intelligence

Automate

Devices

Administration

Incidents

523 Incidents

12 New Incidents

343 Open Incidents

Search

11 matching results

Filters

Status: Incident Reported

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

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 | 10 |
| Detection Risk | 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

View Incident Detail

Incidents

1000

Incident Reported

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](#)

Overview Detection **Response** Worklog

Identification

Containment

Eradication

Recovery

Identify Affected Hosts

Add Note

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

Contain Incident: Overview

Add Note

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

Contain Incident: Assets

Select

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

Contain Incident: IPs

Add Note

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

Contain Incident: Domains

Select

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

Contain Incident: URLs

Select

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

Contain Incident: File Hashes

Select

Contain file hash indicators of compromise to stop the spread of malicious activity.

Implement Additional Monitoring

Add Note

10 Assets

Search

Hostname

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

Action

- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed
- 2023-04-13 15:04:30 Executed

Execute

Investigate

← Investigate

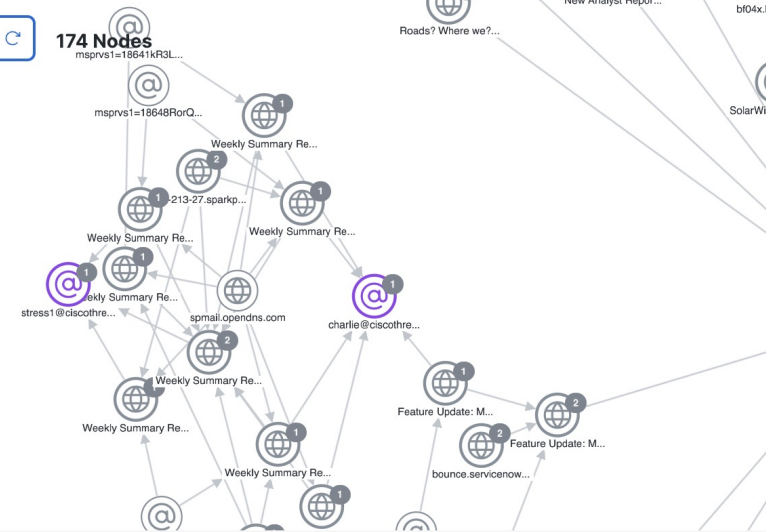
Email Threat Investigation

Lens

Types



174 Nodes



| 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 | |

Control Center

Incidents

Investigate

Intelligence

Automate

Devices

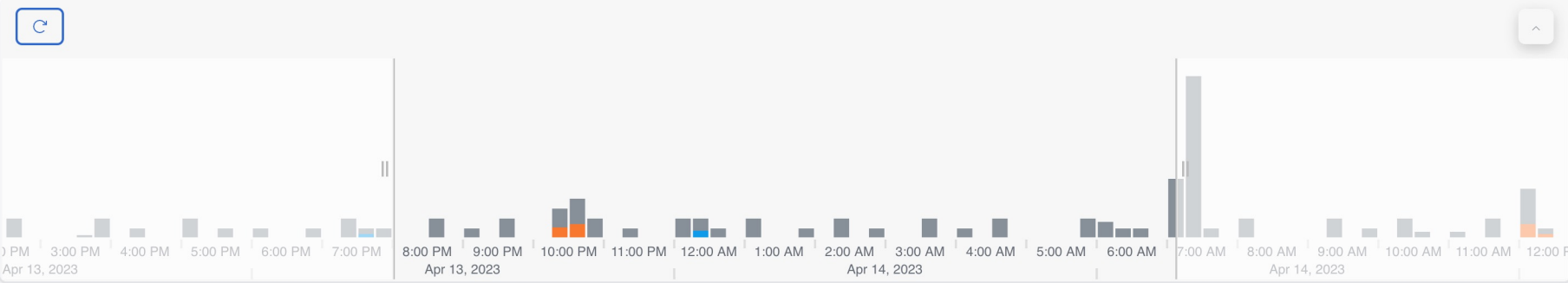
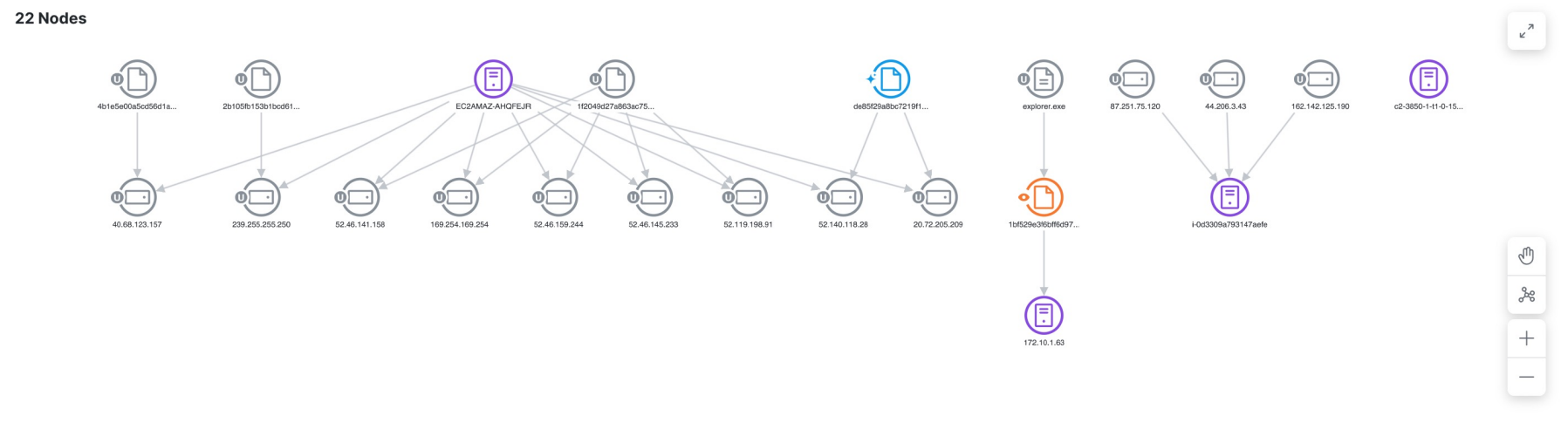
Administration

← Investigate

Golden Incident 4_17 V6 shapshot

Save Investigation

Types ▾



First Seen ▾
Severity ▾
Source
Indicators
Observables
Assets

Indicators 17



Control Center

Incidents

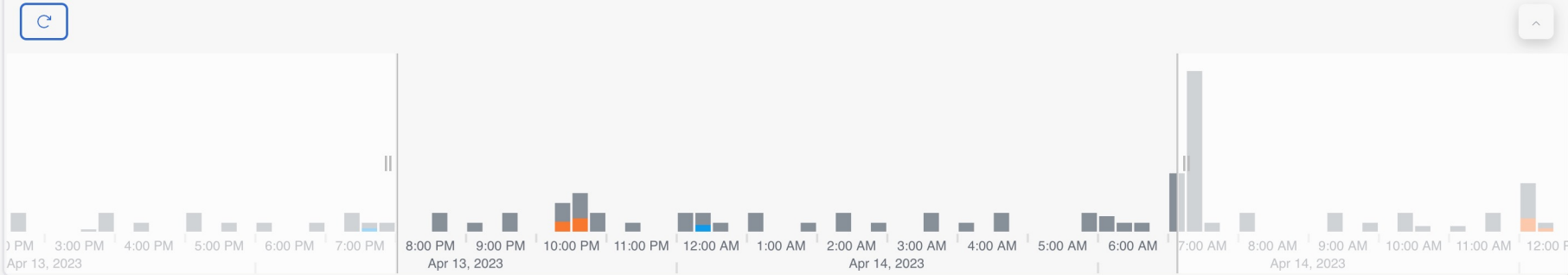
🔍 Investigate

Intelligence

Automate

Devices

Administration



| 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... |

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](#)

Public Private

Search

| Name | Disposition | Reason | Type | Status |
|-----------------|-------------|------------------------|------------|------------|
| 208.180.17.32 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 139.59.44.48 | Malicious | IP Used For Emotet C&C | IP Address | 20% 20% |
| 95.95.175.98 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 147.219.4.194 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 187.199.238.208 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 94.23.45.86 | Malicious | IP Used For Emotet C&C | IP Address | 20% 20% |
| 88.171.156.150 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 103.212.19.254 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 81.229.117.95 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 72.200.109.104 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |
| 178.128.23.9 | Malicious | IP Used For Emotet C&C | IP Address | 20% 20% |
| 104.207.155.100 | Malicious | IP Used For QakBot C&C | IP Address | 20% 20% |

Control Center

Incidents

Investigate

Intelligence

Judgments

Indicators

Events

Feeds

Automate

Devices

Administration

cisco XDR

Judgments

Judgements associate a disposition with an observable. [Learn More](#)

Public Private

🔍 Search ✕ ⓘ

| 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 | ... | High | Green |

SOC- AI Assistance

Cisco Advisor

- AI Chatbot that uses natural language processing to provide insightful answers, practical advice and actionable steps
- Optimizes and recommends next steps and remediation tactics

The screenshot displays the Cisco XDR console interface. On the left, the Cisco Advisor chatbot is active, showing a conversation about a malicious file. The chatbot has identified four endpoints affected by the file: E2E-DataLake-Internet1, DESKTOP-2ER067Q, E2E-Win10-x64-0, and Desktop-Win53. It recommends quarantining the compromised systems. The main area shows a list of incidents, with the top incident being 'Malicious Email Sent to Multiple Users' (Priority 990). The right sidebar provides details for this incident, including a priority score breakdown (990 total, 75 Detection Risk, 10 Asset Value at Risk) and a short description: 'A malicious email was sent to multiple endpoints in the organization.'

| Priority | Name | Source |
|----------|--|----------|
| 990 | Malicious Email Sent to Multiple Users | Endpoint |
| 888 | Threat_Audit in group Protect @ 20220124 19:08:04 | Umbrella |
| 885 | Threat_Audit in group Protect @ 20220124 17:08:04 | Endpoint |
| 881 | Win_Malware.Razy-9896045-0 | Endpoint |
| 793 | Emotet-Botnet-Report | Endpoint |
| 786 | Mustang Panda deploys a new wave of malware targeting Europe | Talos |
| 777 | Qakbot_3 in group Triage @ 20220123 21:09:00 | Endpoint |
| 652 | WannaCry_Ransomware in group Protect @ 20220123 17:04:49 | Endpoint |
| 627 | Cryptominers and RATs | Talos |
| 611 | Cryptominers and RATs | Talos |
| 230 | Manjusaka: A Chinese sibling of Silver and Cobalt Strike | Talos |
| 228 | Manjusaka: A Chinese sibling of Silver and Cobalt Strike | Talos |
| 204 | Manjusaka: A Chinese sibling of Silver and Cobalt Strike | Talos |
| 0 | Plugx in group Protect @ 20220124 17:07:41 | Endpoint |



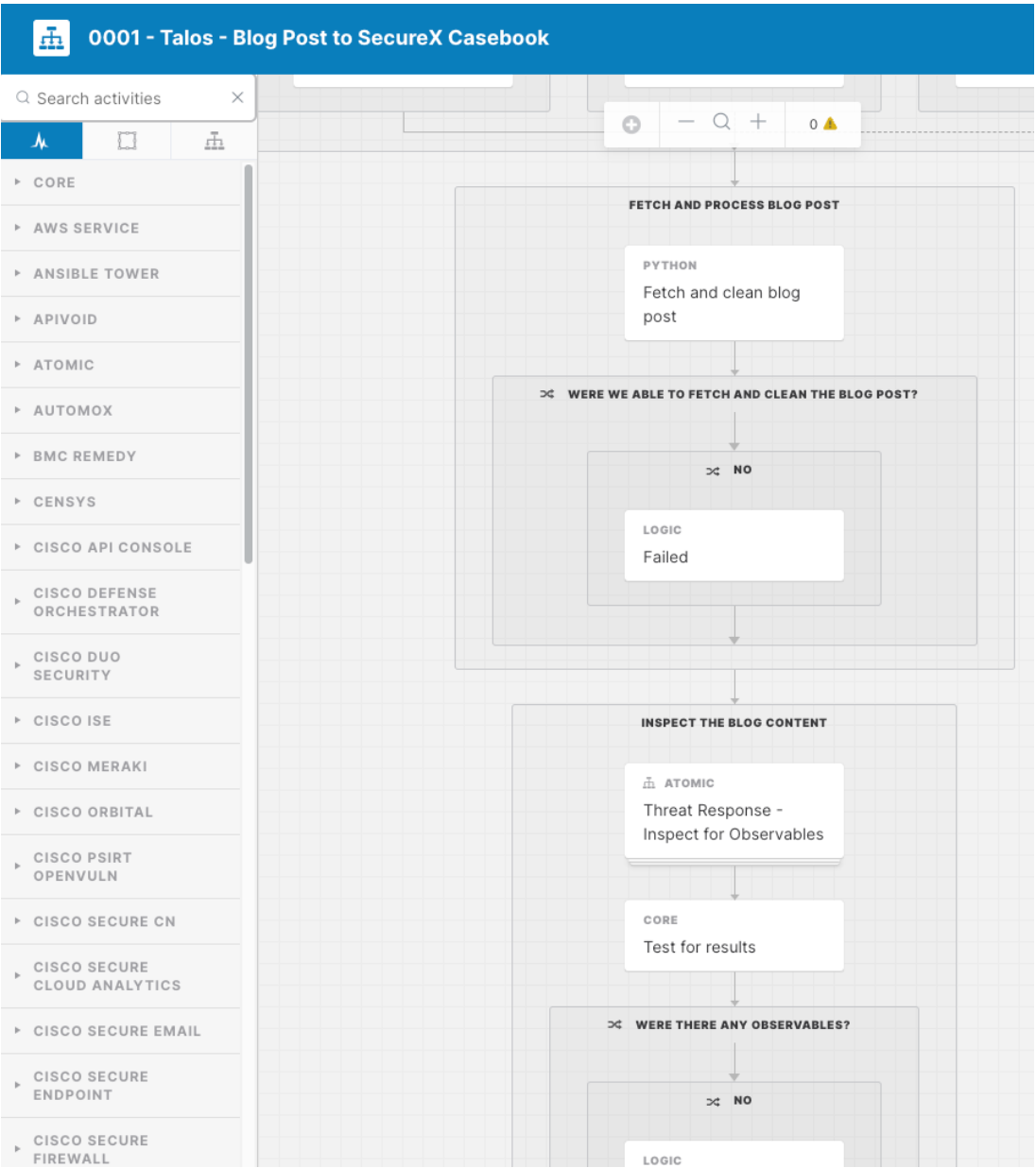
SOC- AI Assistance

Incident Summary Reporting

- As the incident is resolved, save time by allowing generative AI to draft the post-mortem incident summary report
- Export to .pdf to share with external stakeholders

The screenshot displays a SOC dashboard interface. At the top, there's a navigation bar with a search icon, a notification bell, and a user profile for 'Remi Business Corp, Inc'. Below this, the main content area shows an incident list with a selected incident titled 'Malicious Email Sent to Multiple Users' (ID: 990, Status: New). The incident was created via Umbrella 2m ago and is linked to other incidents. The incident details are shown in a modal window titled 'Incident Report' for the 'Malicious Email Sent to Multiple Users' incident. The report is currently in 'Preview' mode. It includes an 'Executive Summary' and an 'Investigation Summary'. The 'Executive Summary' describes the execution of a PowerShell script on thirteen systems, identifying the use of Metasploit and a compromised service account. The 'Investigation Summary' details the primary concern of containing and remediating a Ryuk ransomware infection, listing steps like password protection for AMP connector installations and creating quarantine/production VLANs. The report modal has 'Close' and 'Create PDF' buttons. The background dashboard shows a sidebar with navigation options like Identification, Containment, Eradication, and Recovery, and a main area with tabs for Overview, Detection, Response, and Worklog. At the bottom of the dashboard, there are buttons for 'Back', 'Close Incident', and 'Generate Report'.

Automation

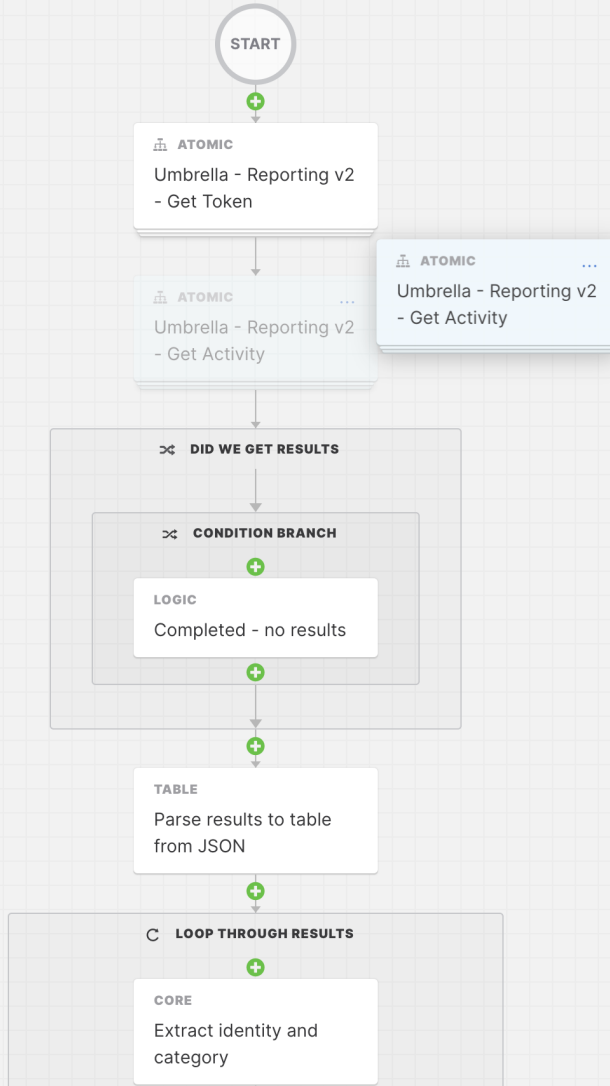




Search activities



- 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



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

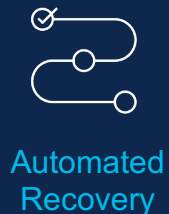
Recovery XDR+R



COHESITY



Full Cycle Automated Threat Response and Recovery* Cohesity and Cisco XDR Integration



Adaptive / Proactive Protection

Data Classification



Devices

Device View

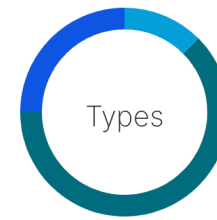
All Devices

Secure Client Devices

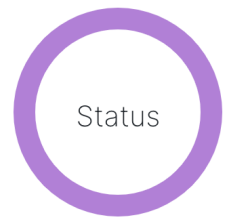


Source Health

9 Devices



- Server (1)
- Desktop (5)
- Virtual (0)
- Mobile (2)



- Managed
- Unmanaged

Filters

Select Saved Filter

Text Search

Q User, IP, hostname...

Managed Status

Select

Operating System

Select

OS

Select

Device Value

Select

Labels

Select

Sources

Select

Policy

Select

AV Definitions out of date (0)

9 Devices found

0 Devices Selected

Update Value

Update Labels

| <input type="checkbox"/> Device Name | OS | OS Version | OS Support | Us |
|--------------------------------------|---------|------------------------|------------|----|
| <input type="checkbox"/> AWS-AD | Windows | Server 2019 Datacenter | | |
| <input type="checkbox"/> CMD2 | Windows | 11 | | |
| <input type="checkbox"/> iPad | iOS | 16.3 (iPad7,11) | | |

- Control Center
- Incidents
- Investigate
- Intelligence
- Automate
- Devices
- Inventory**
- Sources
- Deployment
- Audit Logs
- Profiles
- Device Events
- Administration

Device View **All Devices** Secure Client Devices

Source Health 82 Devices

85%

Types

- Server (16)
- Desktop (13)
- Virtual (24)
- Mobile (0)

Status

- Managed (5)
- Unmanaged (77)

OS

| | | | | |
|------------|----------|----------|---------|-----------|
| Windows 39 | Linux 29 | MacOS 12 | iOS 2 | Android 0 |
| Other 0 | Other 0 | Other 0 | Other 0 | Other 0 |

Filters

Select Saved Filter

Clear Filters Save Filters

| | | | | |
|--|--------------------------|----------------------------|----------------------|--|
| Text Search Q User, IP, hostname... | Managed Status Select | Operating System Select | OS Support Select | Type Select |
| Device Value Select | Labels Select | Sources Select | Policies Select | <input type="checkbox"/> Has Faults (2) <input type="checkbox"/> AV Definitions out of date (18) |

82 Devices found 0 Devices Selected Update Value Update Labels Edit Labels Export to CSV Edit Columns

| Device Name | OS | OS Version | OS Support | Users Seen | Sources | Managed | Compromised | Labels | Value |
|--|--------|------------------------------------|------------|-----------------------|--|---------|-------------|--------|-----------------|
| <input type="checkbox"/> 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 - ExplorCorp | | | | |



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Administration

← Back to Inventory

c1-3850-2-g1-3-win10

Windows Microsoft Windows 10 Pro for Workstations 10.0.19044

Device Value: 10 (Default value) ▾

Managed: No

+ Add Labels

↻ Refresh from Orbital Live Query

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 Enabled

Automatic Updates Enabled

Control Center

Incidents

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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

Control Center

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Microsoft Defender Antivirus Disabled
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: 8.1.7.21417
Version:



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: 8.1.7.21417
Version:
Cloud Management: 1.0.1.400
Version:
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](#)

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Deployment Management

+ Create New

Search

NVM to Direct XDR Deployment

Secure Client Deployment Explor...

Secure Client Deployment ExplorCorp

Edit Name

Delete

Save

Full Installer

Network Installer

Latest (1.0.1.400)

Cloud Management

Secure Client Cloud Management ExplorCorp

Latest (8.1.7.21417)

Secure Endpoint

Group: Protect

Replace Bootstrap Profile

Latest (5.0.2075.0)

AnyConnect VPN

Create Profile

Start Before Logon

Umbrella

Umbrella ExplorCorp

Diagnostics and Reporting Tool

ISE Posture

Create Profile

Secure Firewall Posture

Network Access Manager

Create Profile

Network Visibility Module

NVM to Cloud Direct

- Control Center
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- Device Events
- Administration ▾

← Profiles

Network Visibility Module Profiles

NVM to Cloud Direct [Edit Name](#) [Delete](#) [Reset Changes](#) [Cancel](#) [Make A Copy](#) [Save](#) [Download](#)

Collector Configuration

Collector Type

Use Cisco Cloud Collector ▾

[Configure](#) ^

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)

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...

The screenshot displays the XDR Inspect API interface. At the top, the breadcrumb navigation shows 'Investigate / Inspect / Inspect for observables'. The main area shows a POST request to the URL 'https://visibility.{{amp_api_domain}}/iroh/iroh-inspect/inspect'. The 'Body' tab is selected, and the request body is shown in raw format as a JSON object:

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

Below the request, the 'Body' tab is selected, and the response is shown in 'Pretty' JSON format. The response is a list of extracted observables:

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

The status bar at the bottom right indicates 'Status: 200 OK Time'.

Commercial



Easy to buy tiers for Cisco XDR

Cisco XDR Essentials

Full featured XDR

Native integration of the Cisco security portfolio enabling analysts to detect and respond to the most sophisticated threats, plus a repository for data ingest and retention

Cisco XDR Advantage

Cisco XDR ESS

+

Commercially supported and curated integrations with select third-party security solutions

Cisco XDR Premier

Cisco XDR Adv

+

Cisco Secure Managed Detection and Response MDR

+

Cisco Talos Incident Response

+

Cisco Technical Security Assessment

XDR Premier

| Number of users licensed | # of Hours | Available Services |
|--------------------------|----------------|---|
| 100 - 499 | Up to 20 Hours | <ul style="list-style-type: none"> • Intel on demand: 5+ hrs • Breach Susceptibility Workshop: 5+ hrs • Organization Digital Footprint Assessment: 10+ hrs |
| 500 - 2.999 | 20-80 Hours | <p>All the above, plus:</p> <ul style="list-style-type: none"> • Emergency Incident Response: 40+ hrs • Security Design Thinking Workshop: 20+ hrs • Pen testing: 40+ hrs • Threat Modelling: 40+ hrs • Configuration and Build Review: 40+ hrs • IR Plan: 50+ hrs • IR Playbooks: 50+ hrs • Tabletop Exercise: 50+ hrs |
| 3,000 - 9,999 | 80-160 Hours | <p>All the above, plus:</p> <ul style="list-style-type: none"> • Security Architecture Assessment: 80+ hrs • IR Readiness Assessment: 80+ hrs • Compromise Assessment: 80+ hrs • Cyber Range: 80+ hrs • Proactive Threat Hunting: 100+ hrs |
| 10,000 + | >160 Hours | <p>All the above, plus:</p> <ul style="list-style-type: none"> • Red Teaming: 160+ hrs • Purple Teaming: 160+ hrs • Security Operations Assessment: 160+ hrs |

Resources



Resources

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 Instant Demo](#)
- [Threat Hunting Workshop](#)
- <https://docs.xdr.security.cisco.com/Content/Administration/cisco-third-party-integrations-and-capabilities.htm>

Cisco XDR on Cisco.com



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<https://cisco.com/go/xdr>



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Q & A

