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The bridge to possible

Automating Detection & Response Outcomes using Cisco XDR

.. and how CX Automation can help!

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Engineering Architects, Cisco CX Services & Product Portfolio

@amsardana, @ScottDozier_

BRKATO-1557



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Agenda

- Introduction to Cisco XDR
- Automating with XDR
Automate
Do it yourself.
- Command & Control Use
Case + Demo!
We'll show you how to.
- Cisco Secure Managed
Detection & Response
We'll do it for you.
- Conclusion

Introduction to Cisco XDR



In a hybrid, multi-vendor, multi-vector universe

Everyone is
an insider

+30%

of all incidents
involved stolen
credentials or
malicious insiders

Attacks start
from anywhere

45%

of breaches occurred
in the cloud, and 19%
due to a compromise
at a business partner

Alert fatigue
is real

37%

of IT and SecOps pros
say swelling alert
volume, and
complexity increases
job difficulty

Expanding
attack surface

22%

increase in the
the average cost of a
data breach where
hybrid work was a
factor

What is Cisco Extended Detection & Response?

A means to 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

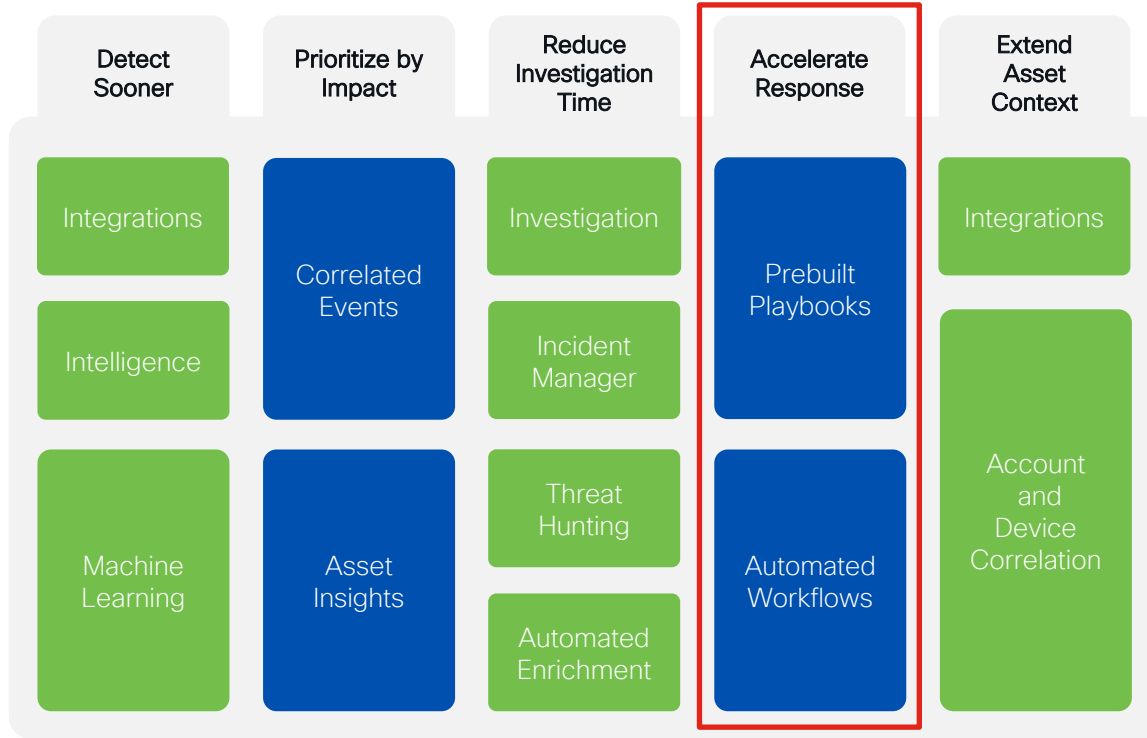
Build
resilience



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

Learn more about Cisco XDR at Cisco Live: BRKSEC-2113 (June 7), BRKSEC-3116 (June 8)

XDR Outcomes & Components



Powerful, flexible automation



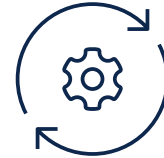
Response

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

Automating with XDR Automate

Author security response
workflows at lightning speed.

What is XDR Automate?



**Simplify & streamline
common IT tasks**

Create no-to-low-code workflows for commons tasks across all IT domains



**Create security
workflows**

Investigate security events and automate responses using pre-built atomics



Centralize technologies

Orchestrate actions across technologies and vendors to create a cohesive system

What is XDR Automate?

Included with XDR Essentials, Advantage & Premier

XDR Automate



No/Low Code



Extensible



Cloud Scale



Rich Library



XDR Automate: Basic Concepts



- **Workflow** – Sequence of activities
- **Activities** – Actions such as HTTP requests, JSON parsing, or Python script execution
- **Targets** – Endpoints to execute an action against
- **Variables** – References to stored information that is passed between activities
- **Account Keys** – Otherwise known as credentials and attached to targets
- **Triggers** – Cause a workflow to execute based on an ‘automation rule’
- **Tasks** – Allow human interaction (approvals)

XDR Automate: Variables

Types

- Boolean
- Date Time
- Decimal
- Integer
- Secure String
- String
- Table
- Custom Types

Scopes

- Global
- Environment
- Workflow
 - Local
 - Input
 - Output
 - Static

Creation

Variables			
NAME	TYPE	SCOPE	VALUE
My Input Variable	String	Input	
My Local Variable	Boolean	Local	false
My Output Variable	String	Output	
+ ADD VARIABLE			

Usage

* Variable to update

[Workflow.Secure Firewall - Get Health Alerts.input.My Input Variable\$] *

New value

test123 *

Browse Variables

Search

Env	Local	My Input Variable
Global	Input	String
Workflow	Output	

Pre Tip: Type \$ in the form field to more quickly insert variable references.

Cancel Save

XDR Automate: Targets

- Targets are the endpoints that are assigned to an activity in the workflow so the activity can “target” the communication.
- Targets come in many types including HTTP, AWS, Meraki, Unix/Linux, etc.
- Targets can have an account key associated, but not required.
- Target groups can be configured to provide a collection of targets to a workflow.

Creation

The screenshot shows the 'New Target' configuration form. It has several sections: 'General' with a 'Target Type' dropdown menu (showing options like HTTP Endpoint, AWS Endpoint, Ansible Tower Endpoint, etc.), 'Account Keys' with 'No Account Keys' and 'Default Account Keys' dropdowns, 'Remote' with a 'Remote Keys' dropdown, and 'HTTP' with 'Protocol' and 'Host/IPAddress' dropdowns.

Usage

The screenshot shows the 'Target' configuration form. It has a 'Target Type' dropdown menu (showing 'No target', 'Execute on this target', 'Specify target on workflow start', 'Execute on this target group'). Below this, there is a 'Select target types' dropdown menu (showing 'HTTP Endpoint'). At the bottom, there is a checkbox for 'All targets in this group'.

XDR Automate: Activities

Activities are the “Action Blocks” that handle all the steps in a workflow. Activities handle things such as HTTP Requests, JSON parsing, or conditional checks.

Usage

Core

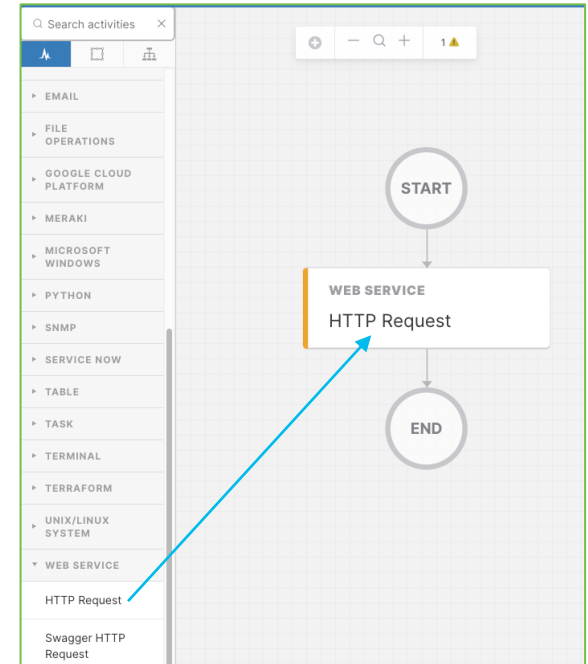
- Set Variable
- Split String
- JSONPath Query
- Calculate Date
- Find String
- Match Regex
- (more)

Logic

- Condition Block
- For Each
- While Loop
- Break
- Completed
- Group
- Parallel Block
- Continue

Other Categories

- AWS Service
- Cisco ISE
- Ansible Tower
- Database
- Email
- File Operations
- Table
- Unix/Linux
- + *more!*

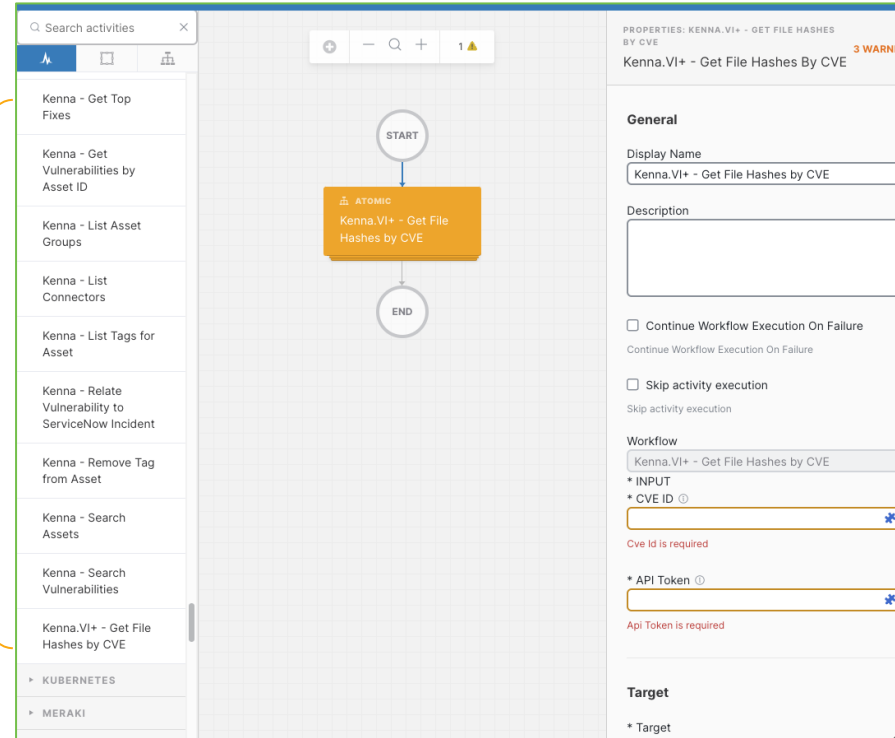


XDR Automate: Atomics

Atomic actions are self-contained workflows similar to a function in traditional programming.

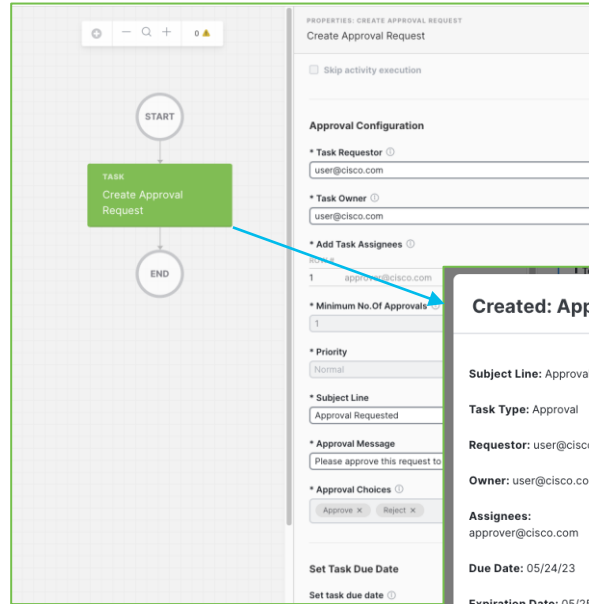
- XDR Automate contains many pre-built atomics, allowing you to interact with many different products such as ThreatQ, Umbrella, ServiceNow, Kenna, Meraki and more.
- Atomics can be added to workflows in the same manner as activities.
- You can turn your own workflows into atomics!

Usage



XDR Automate: Tasks

Tasks allow your workflow to pause and wait for an event (email/incident/webhook) or approval from a human.



Usage

Created: Approval Requested

Subject Line: Approval Requested

Task Type: Approval

Requestor: user@cisco.com

Owner: user@cisco.com

Assignees: approver@cisco.com

Due Date: 05/24/23

Expiration Date: 05/25/23

Last Modified: 05/10/23

Message from Requestor: Please approve this request to isolate the host.

Select a response from the choices below:

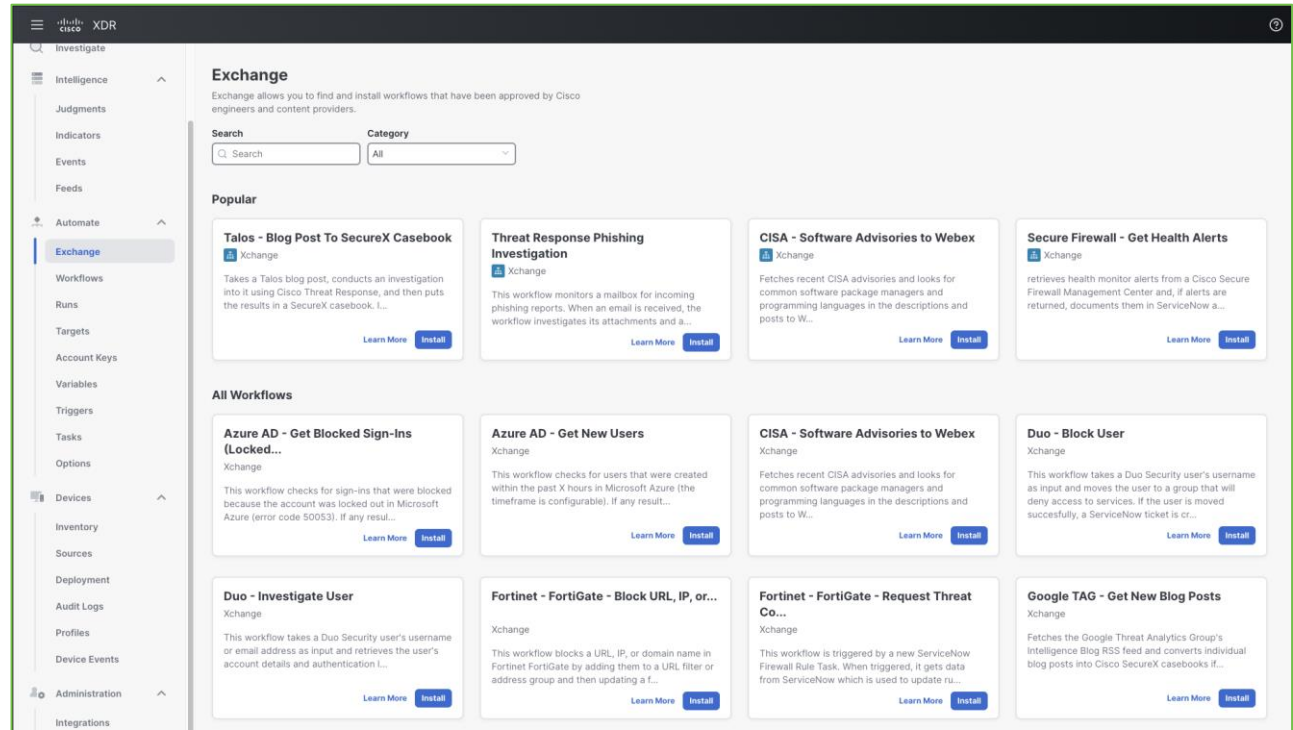
Add a Message

I approve this!

XDR Automate: Exchange

You don't have to start building workflows from scratch!

Use the Exchange to 1-click install workflows that have been approved by Cisco.



Use Case: Blocking Ransomware Command & Control Callbacks

Using Cisco XDR, Cisco Umbrella & Cisco Secure Endpoint

Scenario



Your organization has several remote employees who are using their personal devices to access sensitive company data.

One of the employee's laptops gets infected with ransomware that attempts to establish command & control communication before initiating data encryption.





Demo

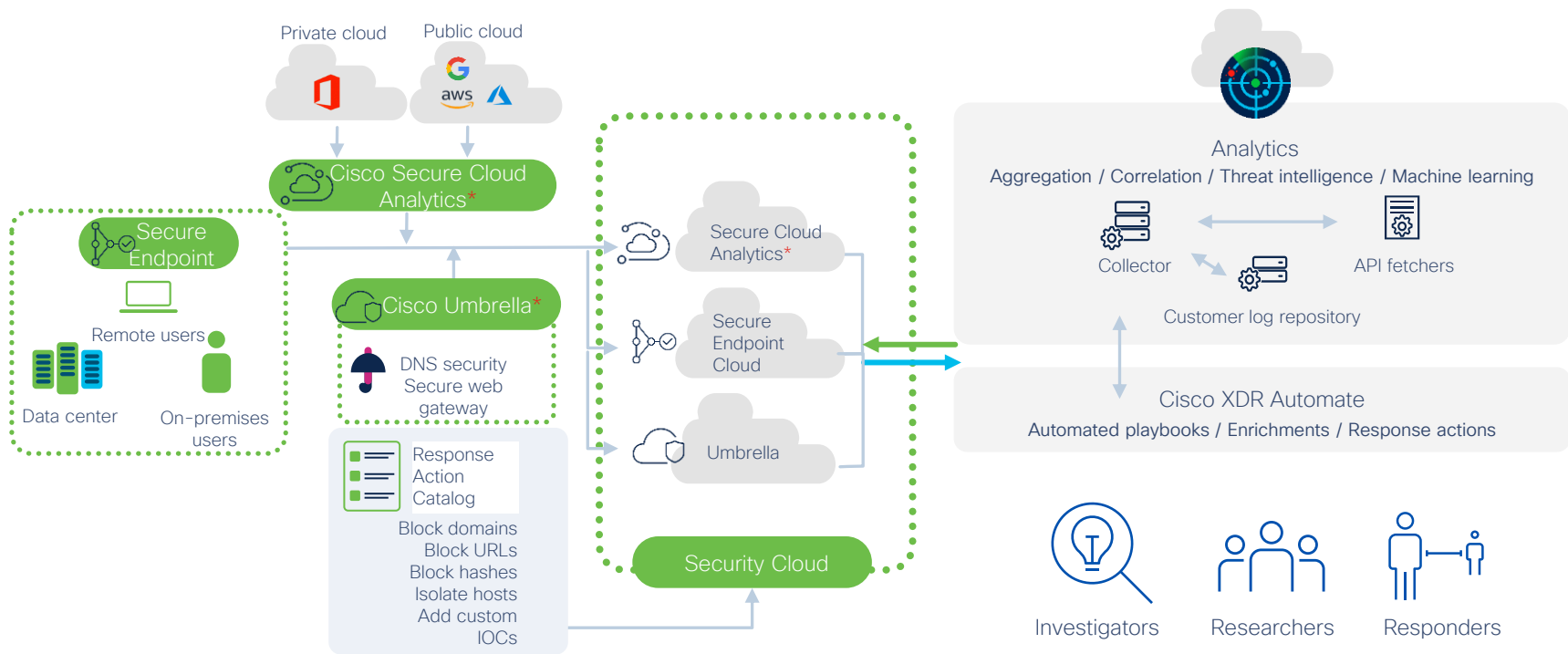
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Cisco Secure Managed Detection & Response (MDR)

We do it for you.



Cisco Secure MDR



Cisco integrated security architecture

Cisco security operations center experts provide monitoring and guidance

Conclusion



To summarize..

- To address the threats of tomorrow, we need to change how we look at detection & response today
 - Cisco XDR **simplifies security operations**, **speeds up investigations** and **accelerates response**
 - XDR Automate is a flexible & powerful no-to-low code platform to orchestrate how your organization investigates & responds to threats
- Cisco Managed Detection & Response (MDR) provides the capabilities of **Cisco XDR as a managed service** with packaged automated response actions
- Cisco CX Automation delivers **services as code** to help you implement a full DevOps motion across Cisco architectures and solutions

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Credits



Andy Hagar

Security Automation Leader, Cisco CX



Tuan Huynh

Engineering Leader, Cisco CX



Kevin Perkins

Automation Engineer, Cisco CX



Jay Kuhne

Solutions Architect, Cisco CX



Russ Hardison

Sr. Director, Cisco CX



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View session content on GitHub:

<http://cs.co/cl-xdr-automate>

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The bridge to possible

Thank you

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