

Simple and Easy Network Automation

cisco Live !

Agentic Workflows for Cisco Networking

Ed Novak
Technical Marketing Engineer

Session ID: BRKOPS-1156

Cisco Webex App

Questions?

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

How

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

Webex spaces will be moderated by the speaker until 14 November 2025.



<https://cislive.ciscoevents.com/cislivebot/#BRKOPS-1156>

Ed Novak – Workflows TME

25 years @ Cisco

Certification geek



Ultra runner



Network Automation from an ultra runner's point of view

Unified Wireless Network Service Deployment

Run

Agenda

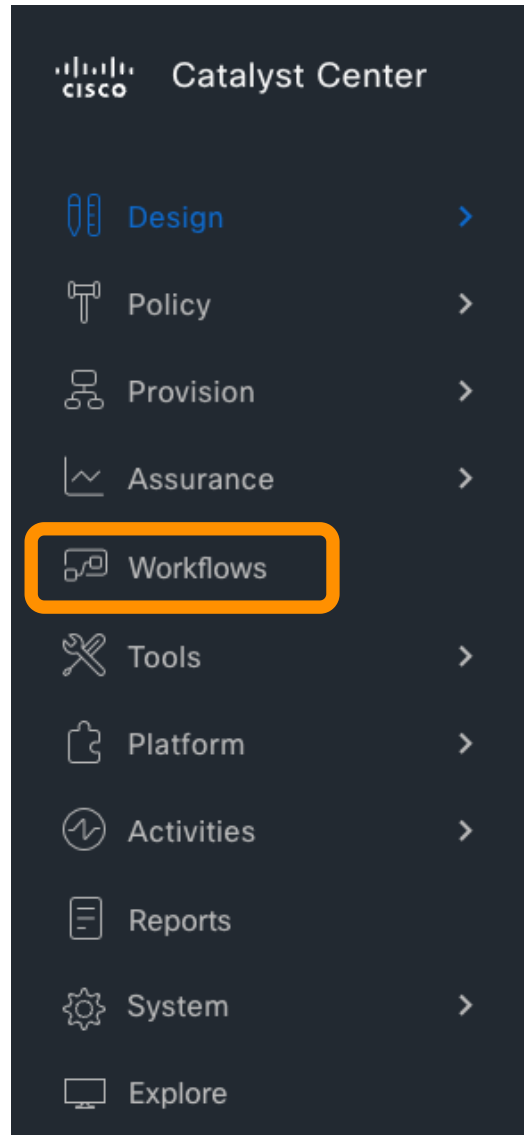


- 01 Race Details – What is Workflows?
- 02 Registration – What's the cost?
- 03 Training Plan – Workflows Basics
- 04 Course Options – Workflows
- 05 FAQs
- 06 Aid Stations – Help with Workflows
- 07 Race Series – Other Workflows
- 08 Cut Off Time



Live Demo

Catalyst Center Workflows != Agentic Workflows



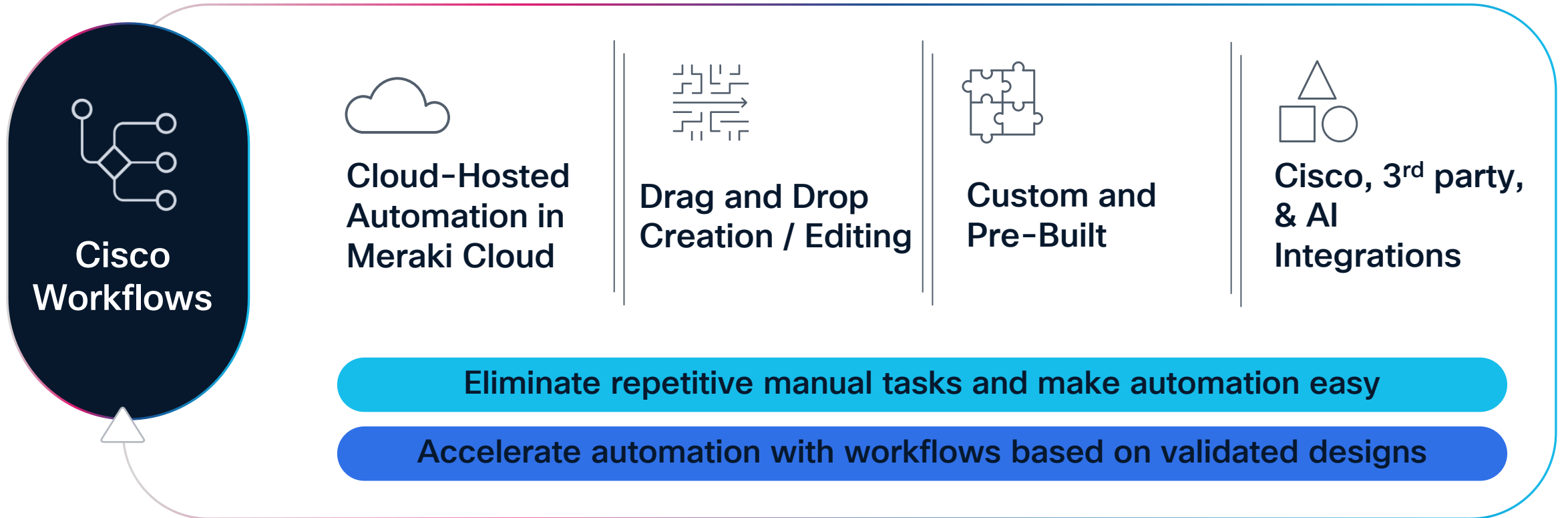
Race Details

What is Agentic Workflows?

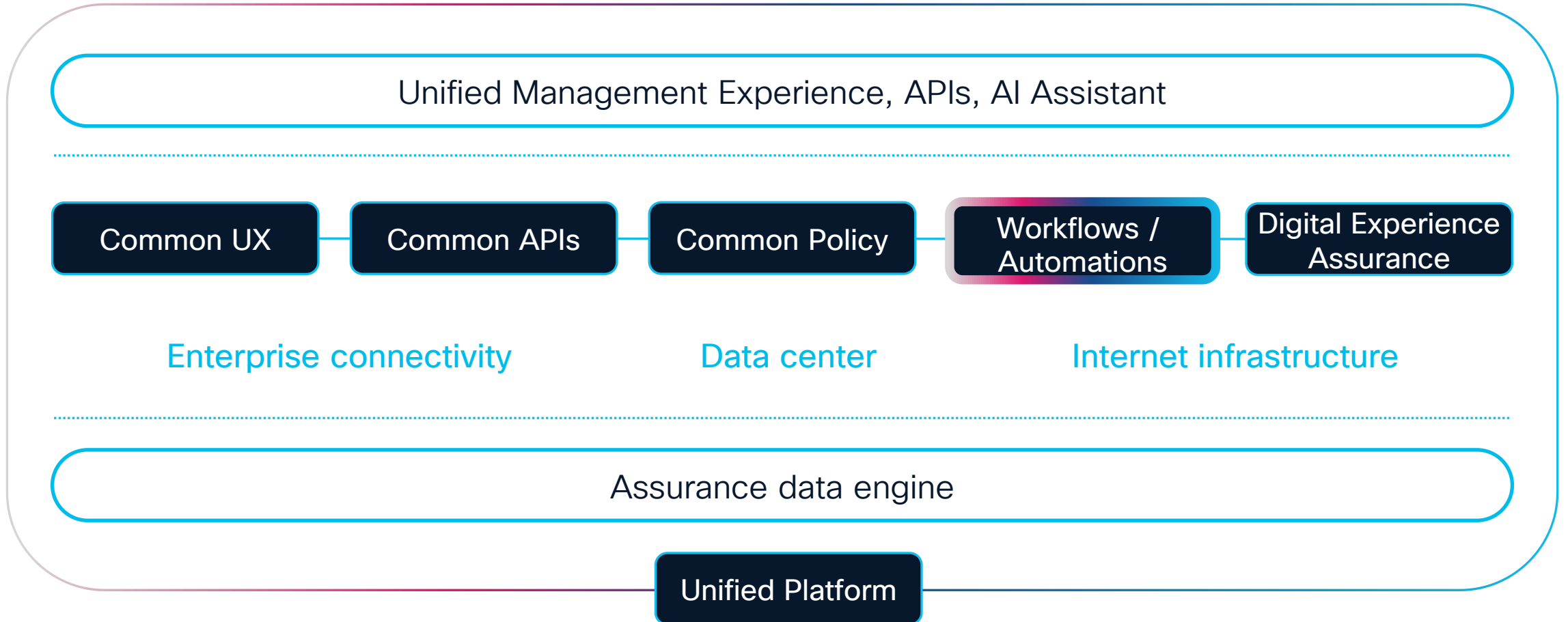


Agentic Workflows for Cisco Networking

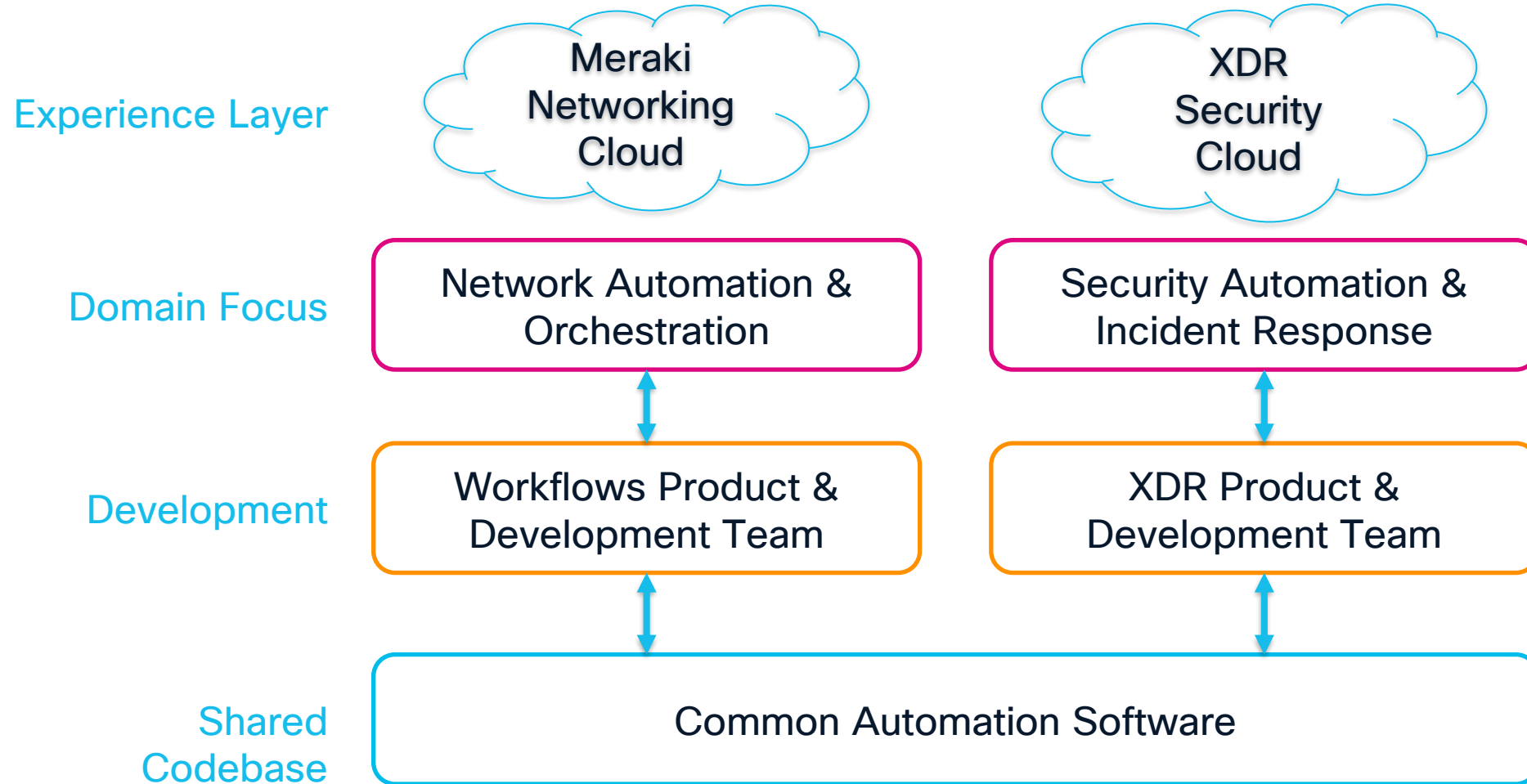
Core Functionality



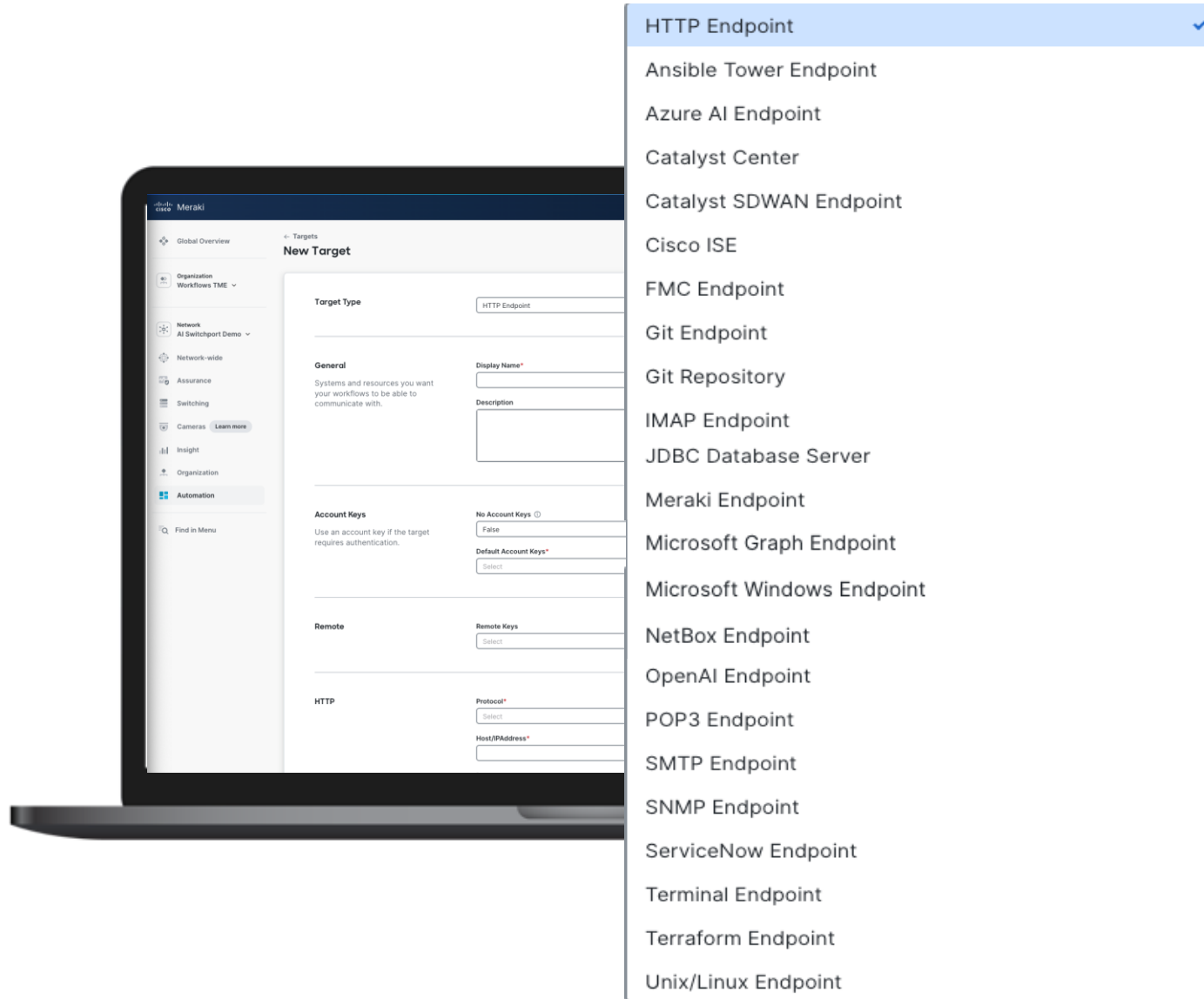
Part of the Cisco unified platform strategy



Shared automation supports the vision



Central automation for Cisco and third-party applications



Automate tasks across Meraki, Catalyst Center and SD-WAN, ISE, ACI, Nexus, and more.

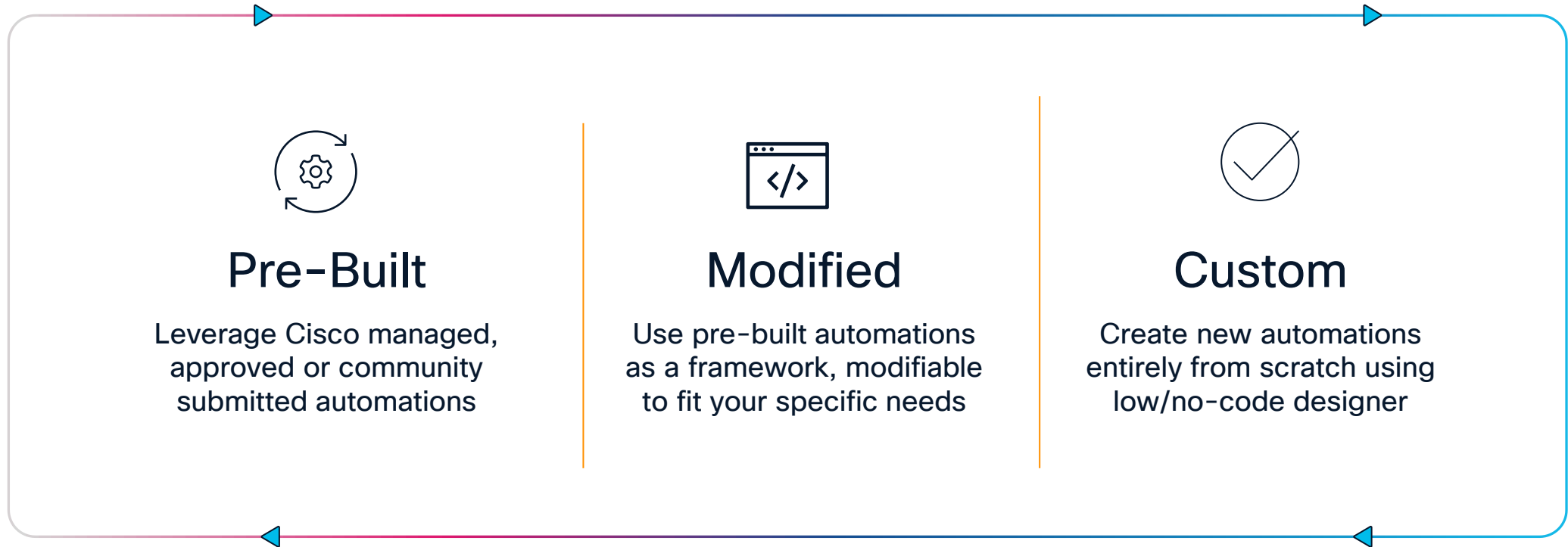


Integrate third-party applications such as ServiceNow into automation outcomes with Cisco domains.



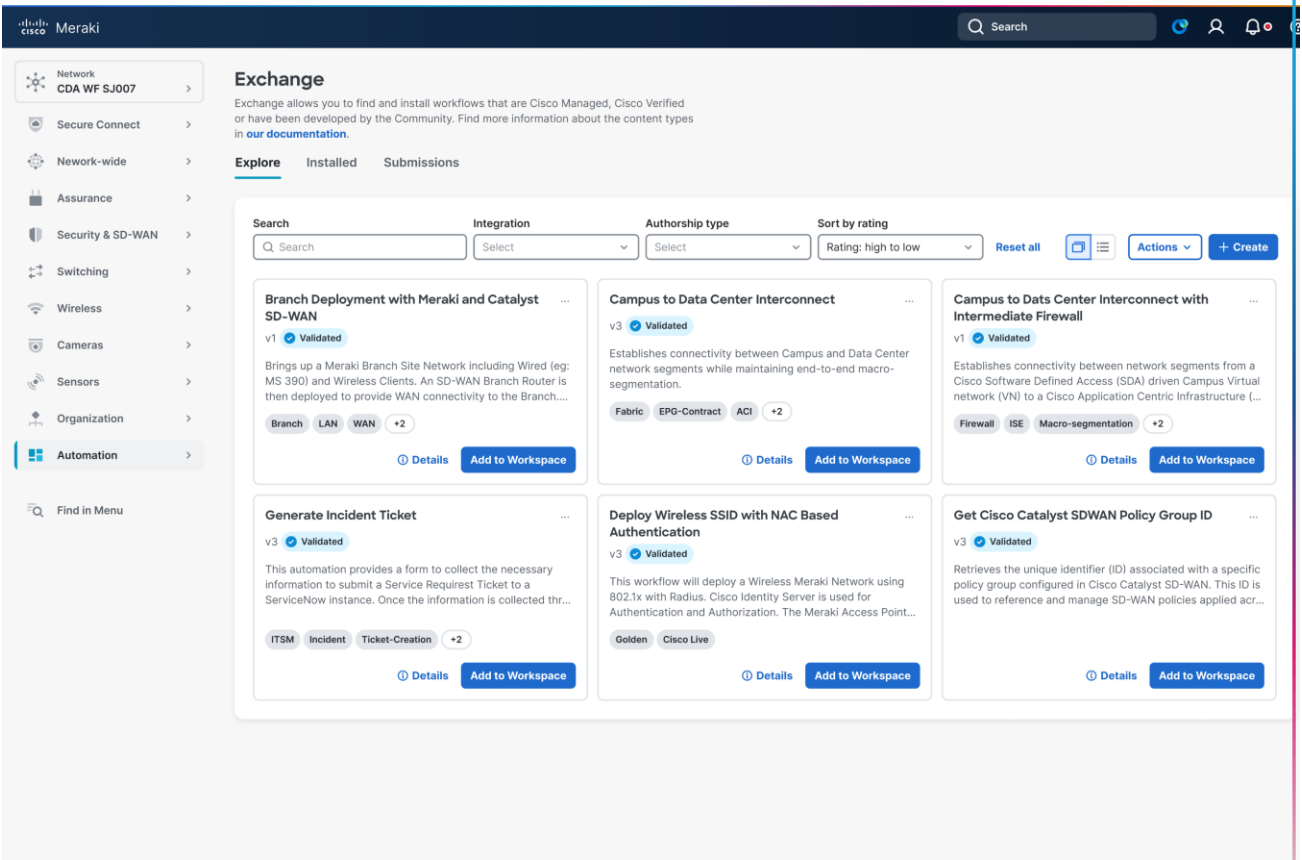
Connect cloud and on-premise controllers to extend automation across the Cisco portfolio and beyond.

Flexible consumption to meet your specific needs



Workflow Exchange

Community driven automation with the ability to submit



Comprehensive Catalog
From Cisco, Partners, or the community.



Based on Validated Designs
Cisco Managed or Cisco Verified



Updated Regularly and Often
A dynamic exchange provided by Cisco.
Submit your own!

Workspace

Favorite, organize, and manage workflow automation

Meraki

Search

Twitter

Profile

Notifications

Help

Network

CDA WF SJ007

Secure Connect

Network-wide

Assurance

Security & SD-WAN

Switching

Wireless

Cameras

Sensors

Organization

Automation

Find in Menu

Workspace

Manage the lifecycle of your automations and apply process governance. Create, collaborate, validate, approve, organize, share.

Workflows 14

Atoms 6

Recents

Favorites 3

+ Add a tab

Search name or description

Status

Category

Owner

Actions

Create

☐	Display name	Categories	Status	Owner	Last modified	
☐	Deploy new multi-domain site with SD-WAN, Meraki, and NAC	Deployment	Validated	Cisco-managed atoms	2025-04-18 18:45	
☐	Deploy PagerDuty at the Organizational Level	PagerDuty	Validated	Cisco-managed atoms	2025-04-18 18:45	
☐	Catalyst SD-WAN			alex.cho@oracle.com	2025-04-18 18:45	
☐	Site Deployment			alex.cho@oracle.com	2025-04-18 18:45	
☐	Deploy SD-WAN site	SD-WAN	Validated	Cisco-managed	2025-04-18 18:45	
☐	Validate SD-WAN site	SD-WAN	Validated	Cisco-managed	2025-04-18 18:45	
☐	Catalyst Center			john.baker@ibm.com	2025-04-18 18:45	
☐	Copy Template to Catalyst Centers		Validated	Cisco-managed	2025-04-18 18:45	
☐	Get SDWAN vEdge devices with input		Validated	Cisco-managed	2025-04-18 18:45	
☐	Day 2 Operations			michael.smith@tesla.c...	2025-04-18 18:45	
☐	Update SSID PSK	SSID	Validated	michael.smith@tesla.c...	2025-04-18 18:45	
☐	Schedule Network Firmware Upgrade by Network Tag	Firmware	Validated	michael.smith@tesla.c...	2025-04-18 18:45	
☐	Copy Meraki Switch Port Configuration	Meraki	Validated	michael.smith@tesla.c...	2025-04-18 18:45	
☐	Compliance Audit			claire.davis@uber.com	2025-04-18 18:45	
☐	Compliance Audit of Multiple Networks by Tag	Audit	Validated	claire.davis@uber.com	2025-04-18 18:45	
☐	Network Audit			claire.davis@uber.com	2025-04-18 18:45	
☐	SSID Audit	Audit	Invalid	claire.davis@uber.com	2025-04-18 18:45	
☐	L3 Firewall Rule Audit	Audit	Invalid	claire.davis@uber.com	2025-04-18 18:45	



Quickly View Workflows in Meraki
See status, owner, and details



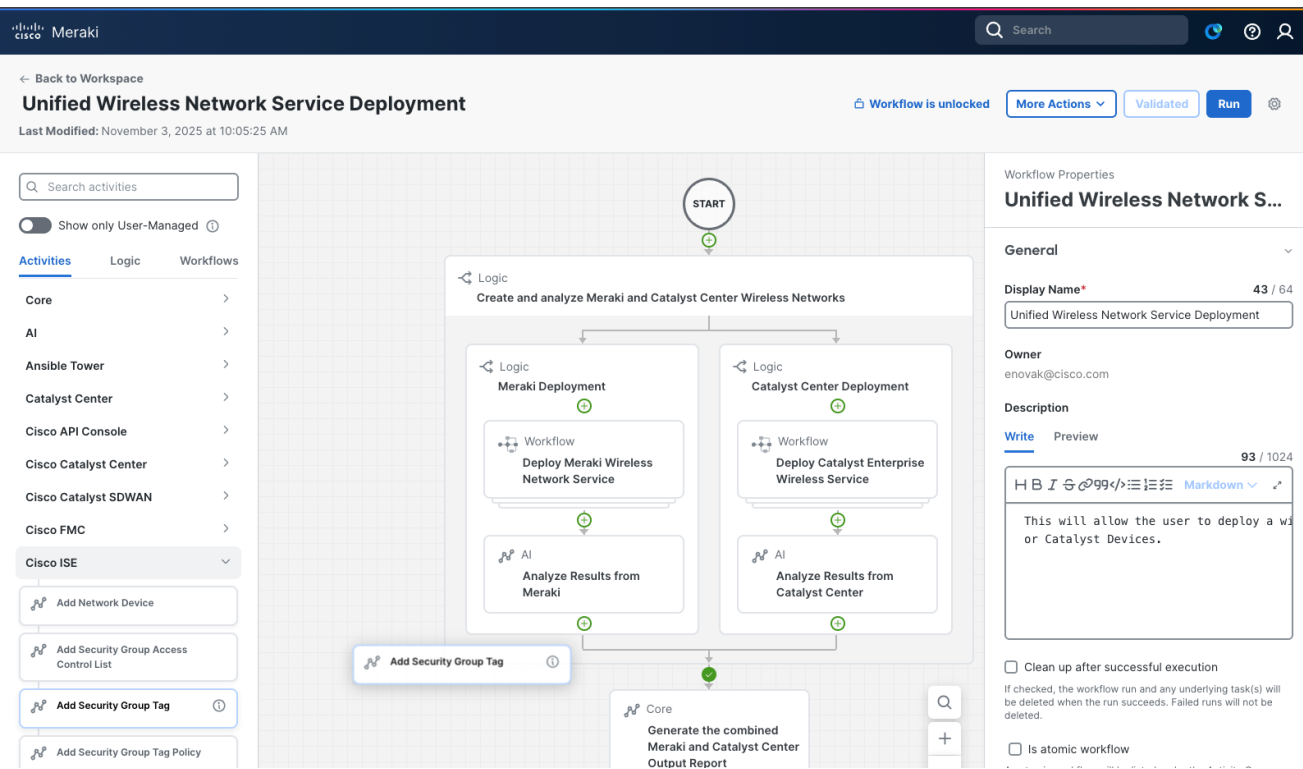
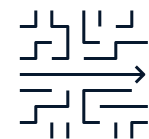
Duplicate, Edit, and Share
Collaborative automation



Manage Your Team
Enable Network Operations for daily tasks or Network Designers to create

Workflow Editor

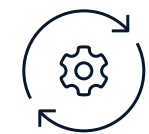
Drag-and-drop creation, sub-workflows, broad integrations, approvals



Drag-and-Drop Builder
No code creation and editing



Operational Flexibility
Data transformations, python, JSON
table creation, loops, serials, conditions



Flexible Deployment Options
Out-of-the-box, modified, or fully custom

AI driven deterministic workflows

Leverage AI to assist Network Operator interaction with automation

Ask for an outcome

Make a request using natural language

You

Run an automation that deploys a unified wireless network service on both Meraki and Catalyst Center

AI Assistant

02:22 PM

Here is the details of the workflow you selected:

Unified Wireless Network Service Deployment

Create and analyze Meraki and Catalyst Center Wireless Networks

Not started

Generate the combined Meraki and Catalyst Center Output Report

Not started

Do you confirm that you want to proceed with this workflow?

Like

Comment

Share

AI Assistant

Please confirm that you want to execute the workflow titled "Unified Wireless Network Service Deployment" with these parameters:

Parameter	Value
Meraki Target Network Name	Campus Fabric
SSID Number	2
Wireless Network Name	Marketing
Passkey	*****
Encryption Mode	wpa
Authorization Mode	psk
WPA Encryption Mode	WPA2 only

This workflow will deploy a unified wireless network service with the specified SSID, security, and authorization settings.

Please confirm if you would like to proceed with these settings.

Like

Comment

Share

Retain control over network changes



Speak your mind
Ask the AI Assistant for help with your tasks



Responsiveness
Enquire to learn more about the outcome



Dynamic Execution
Interact to ensure your intention

Important Concept: “Deterministic”

Deterministic (for Network Engineers)

- The outcome is fully determined by the initial conditions—there’s **no randomness involved**
- Will always produce the exact same output when given the same input
- **LLMs like ChatGPT appear non-deterministic**, using randomness to make answers more diverse and natural
 - Powerful for creative tasks but require controls in environments that require precise repeatable actions (temperature=0)

Cisco offers AI powered **deterministic automation** with Workflows – **(Workflows can be initiated from AI Assist)**

The screenshot shows the Cisco AI Assistant interface. At the top, there is a search bar and a user profile icon. Below this, a user message is displayed: "I would like to deploy a unified Wireless Network Service Across both Meraki and Catalyst Center". The AI Assistant responds with a list of three workflows that can help with this task. The response is timestamped at 09:35 am. The workflows are presented in a table with columns for ID, Workflow Name, and Description. Below the table, the AI Assistant asks the user to reply with the number of the workflow they want to proceed with, providing an example: "1" for Unified Wireless Network Service Deployment. At the bottom of the interface, there is a text input field for asking questions and a blue arrow button to submit. A small disclaimer at the very bottom states: "Assistant can make mistakes. Verify responses. Cisco handles your data responsibly. See [Privacy Data Sheet](#)."

#	Workflow Name	Description
1	Unified Wireless Network Service Deployment	This will allow the user to deploy a wireless Network across both Meraki or Catalyst Devices.
2	Deploy Wireless SSID with NAC Based Authentication	Deploy Wireless Meraki SSIDs across Organization Networks using 802.1x with Radius. Cisco Identity Server is used for Authentication and Authorization. Meraki APs can be automatically...
3	Deploy Enterprise Wireless Service	Deploys an enterprise wireless service (SSID) at Catalyst Campus Network. Creates a new SSID, assigns it to a Network Site Hierarchy, and deploys to the Catalyst WLC.

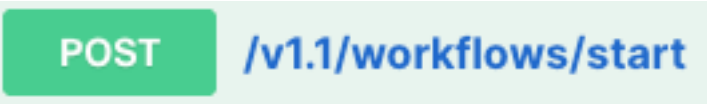
How do you run a workflow?

Any way you want to

Manually



API



Schedule

General ⓘ

Type ⓘ
Schedule Rule

Title* 0 / 64

Description 0 / 1024

Automation rule is on ⓘ

Schedule

Calendar*
Select

Timezone*
(UTC) Coordinated Universal Time

Start Time*
hr : mi ⓘ

Number of runs per day*
TIME(S) ⓘ

Time Interval (Run Every)
HRS ⓘ MIN ⓘ

Apply to selected workflows ⓘ

On ⓘ

Select workflow
Type to search workflows ⓘ

Workflow is required

+ Add workflow

Webhook

General ⓘ

Type ⓘ
Webhook Rule

Title* 0 / 64

Description 0 / 1024

Automation rule is on ⓘ

Webhook

Select webhook* ⓘ
Select

Conditions

☒ ALL of these conditions must be met
☐ ANY of these conditions can be met
☐ Advanced

+ Add condition

Apply to selected workflows ⓘ

On ⓘ

Select workflow
Type to search workflows ⓘ

Workflow is required

+ Add workflow

AI Assistant

AI Assistant

New thread

Today

I would like to run a workfl...

You

I would like to run a workflow that conducts a compliance audit of all networks with the network tag of Audit in all my organizations

AI Assistant

10:10 am

I found a workflow that can help you with this task:

Compliance Audit on Multi-Organization Networks by Tag

Create a table of all Organizations

Create Network List of Tagged Networks from all Organizations

Run Compliance Audit sub-workflows for each Network

Generate the audit report findings

Please confirm if you want to proceed.

Like

Share

Reply

You

proceed

AI Assistant

10:10 am

Compliance Audit on Multi-Organization Networks by Tag

Input - Network Tag *

Audit

Continue Clear

Ask the AI Assistant a question

➤

Assistant can make mistakes. Verify responses. Cisco handles your data responsibly. See [Privacy Data Sheet](#).

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BRKOPS-1156

Automation

Workflows Menu Options

Global Overview

Organization
BXB Workflows

Network
Boston

Cloud

Network-wide

Assurance

Security & SD-WAN

Switching

Wireless

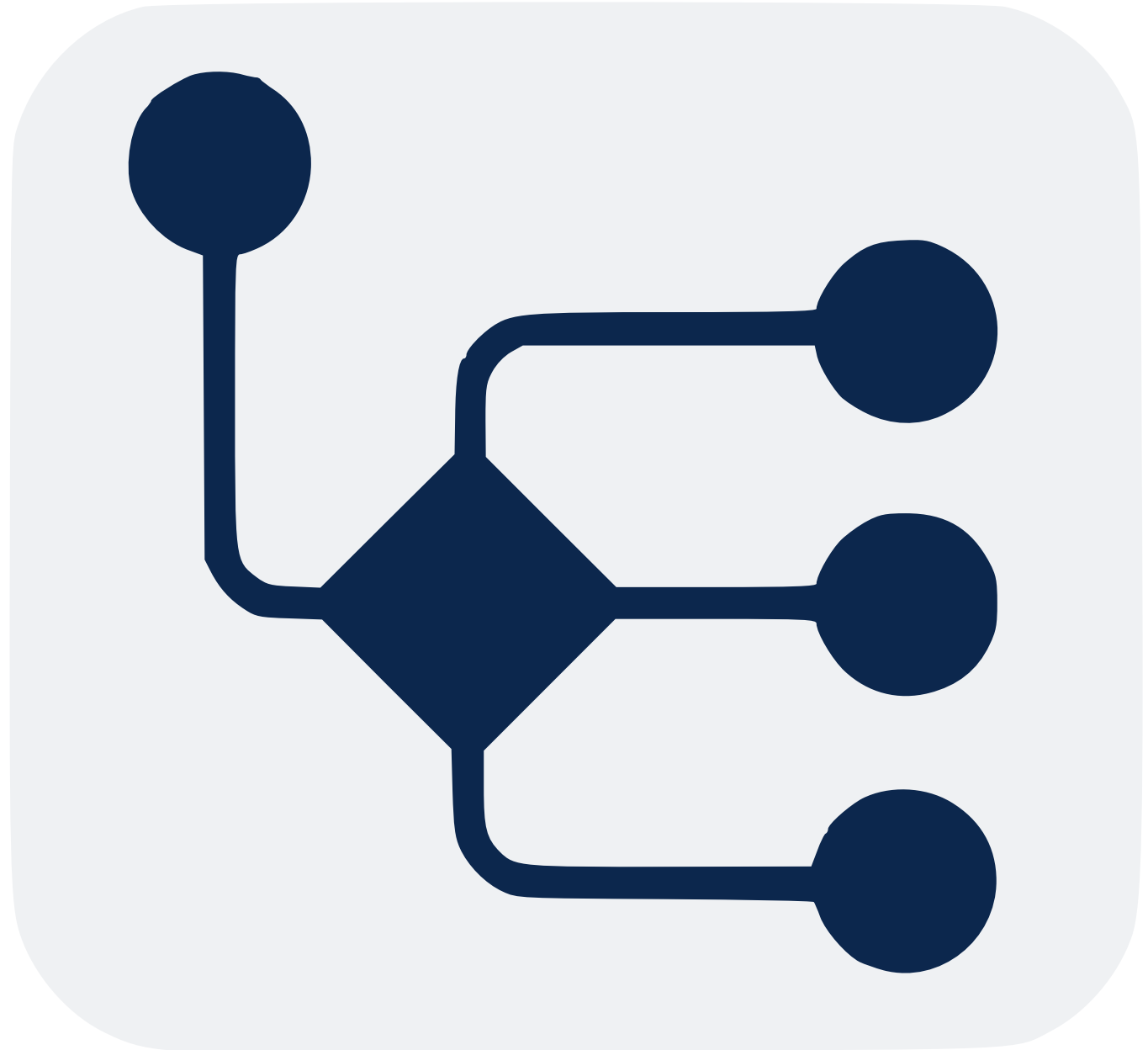
Insight

Organization

Automation

Exchange	Explore <div>InstalledSubmissions</div>
Workspace	Workflows <div>AtomicsRecently RunFavorites</div>
Run Monitoring	Runs
User Tasks	Approvals <div>Prompts</div>
Targets	Targets <div>Target GroupsRemote TargetsAccount Keys</div>
Variables	Global Variables <div>Variable Types</div>
Rules	Automation Rules <div>HistoryCalendarsWebhooks</div>

Registration What's the cost?



And the best part....



\$0

Access to Cisco
Workflows is
included as a value
add for being a Cisco
customer

No risk to adopt and deploy —————●

Cisco adapters and automations —————●

Networking community focus —————●

Training Plan - Workflows Basics



Self-Learning Samples YouTube Playlist

Training Plan

youtube.com/@CiscoWorkflows

cs.co/WorkflowsSelfLearning

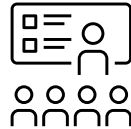
These training videos walk through the basics of getting started with creating Workflows



1. **Workflows Tour**
Cisco Workflows • 672 views • 3 weeks ago
7:58
2. **Hello Web Service**
Cisco Workflows • 379 views • 3 weeks ago
13:37
3. **Variables and Conditionals**
Cisco Workflows • 260 views • 3 weeks ago
20:10
4. **Tables and Loops**
Cisco Workflows • 225 views • 3 weeks ago
20:24
5. **Python in Workflows**
Cisco Workflows • 167 views • 3 weeks ago
11:22
6. **User Tasks - How to pause a workflow for a user to make a...**
Cisco Workflows • 114 views • 3 weeks ago
17:45
7. **Meraki Organizational Search for Networks by tag**
Cisco Workflows • 178 views • 3 weeks ago
25:53
8. **How to Launch Workflows using Webhook Capabilities**
Cisco Workflows • 154 views • 3 weeks ago
21:54
9. **AI Assistant and Workflows**
Cisco Workflows • 61 views • 3 weeks ago
7:29
10. **AI LLM Actions in Workflows**
Cisco Workflows • 135 views • 3 weeks ago
17:22
11. **Managing GitHub Repositories in Workflow**
Cisco Workflows • 27 views • 2 days ago

Exchange

Training Plan



Integration

☐ Ansible Tower

☐ Azure AI

☐ Catalyst Center

☐ Catalyst SDWAN

☐ FMC

☒ Getting Started

Meraki

Search

Global Overview

Organization Workflows-TME

Network AI Switch Port Demo

Network-wide

Assurance

Switching

Insight

Organization

Automation

Find in Menu

Exchange

Exchange allows you to find and install workflows that are Cisco Managed, Cisco Verified or have been developed by the Community. Find more information about the content types in [our documentation](#).

ExploreInstalledSubmissions

Search

1 Selected

Authorship Type

Rating: high to low

Reset all

2 Getting Started 1 - JSON Placeholder Web Service

Cisco-Managed

No Ratings

This is the first example workflow in the "Getting Started" Series. In this workflow, a Web Service call is provided and a first look at...

DetailsInstall

2 Getting Started 2 - Web Service with Conditionals

Cisco-Managed

No Ratings

This workflows builds on the "Getting Started 1 - JSON Placeholder Web Service" workflow by introducing input variables and conditionals.

DetailsInstall

2 Getting Started 3 - Find User Email from Web Service

Cisco-Managed

No Ratings

This workflow builds on the "Getting Started 2 - Web Service with Conditionals" learning series. Complex searches are introduced to facilitate...

DetailsInstall

Getting Started 4 - Python Script Activity Example

Cisco-Managed

No Ratings

This simple workflow is an example of how to execute a Python Script Activity that shows mapping variables into and out of a Python...

DetailsInstall

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The Basics

What makes up a Workflow?

Activities



Tables



Tasks



Python



Logic

Loops



Conditionals



Group &
Parallel Block

...

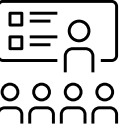
Atomics



Workflows



Activities



Activities	Logic	Workflows
Core	>	
AI	>	
Ansible Tower	>	
Cisco API Console	>	
Cisco Catalyst Center	>	
Cisco Catalyst SDWAN	>	
Cisco FMC	>	
Cisco ISE	>	
Cisco Meraki	>	
Cisco Umbrella	>	
Cisco Webex	>	
Database	>	
Elastic Cloud	>	
Email	>	
File Operations	>	
Jamf Pro	>	
Jira Cloud	>	
Microsoft Windows	>	
NetBox	>	
OCSF v.1.4	>	
Python	>	
ServiceNow	>	
Slack	>	
SNMP	>	
Splunk Cloud	>	
Table	>	
Task	>	
Terminal	>	
Terraform	>	
Unix/Linux System	>	
Web Service	>	

Building blocks and individual functions



Activities handle operations such as API Requests, JSON parsing, HTTP Requests, File operations, Execute Terminal Command(s)



Tables allow you to store structured data – use as a source in a For Each Loop



Tasks ask for user input before taking an action – Approvals and Prompts



Execute Python Script – pre-defined set of modules available to use

Activities

Common Activity Properties

Display Name: Descriptive name for the activity (required)

Description: Short description of the activity (optional)

Activity Timeout: Time in seconds that Automation will attempt to complete an activity (required)

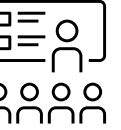
Continue Workflow Execution on Failure: Check box to continue the workflow if this activity fails (optional)

Skip Activity Execution: Check box to bypass running the activity during the workflow execution (optional)

Target: The systems and resources to communicate with

Properties: Get Catalyst Center Site V2

Get Catalyst Center Global Site



General

Display Name 31 / 64
Get Catalyst Center Global Site

Description 59 / 1024
Retrieves Catalyst Center's "Global" Site Hierarchy Details

Activity timeout (seconds)
180 [x]

☐ Continue workflow execution on failure

☐ Skip activity execution

Target

Target*

☒ Use workflow target

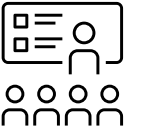
☐ Override workflow target

Target
Select

☐ Use workflow target group

☐ Override workflow target group criteria





Activities Logic Workflows

Loops



For Each



While Loop



Break



Continue

Conditions



Condition Block



Start Point



Completed

Other

...

Group

...

Parallel Block

For Each activity – create a loop that runs once for each item in a source array

While Loop activity – create a loop that runs based on the conditions you configure

Break activity – to stop a loop and proceed to the next activity

Continue activity – to continue running a workflow after a condition branch in a loop fails

Condition Block activity – branch your workflow based on a series of one or more conditions. The same as a traditional if/then/else in scripting.

Completed activity – stop a workflow and mark it completed as either Succeeded or Failed

Group – create containers within your workflow for easier readability

Parallel Block – create branches in your workflow that run at the same time (parallel)



Workspace

Manage the lifecycle of your automations and apply process governance. Create, collaborate, validate, approve, organize, share.

Workflows 4 ▼ **Atomics** 973 ▼ Recently Run Favorites 7 ▼

Small, self-contained workflows that are like a function in traditional programming

Workflows

Search

Category

Select ▼

Owner

Select ▼

Reset all

Display name	Categories	Status	Owner
Meraki - Get Organization Summary Return metrics for organization's top clients	Cisco Meraki - Organizations	Validated	Cisco-Managed
Get Organization Appliance VPN Return the firewall rules for an organization	Cisco Meraki - Appliance	Validated	Cisco-Managed
Meraki - Modify Network Sm Device Add, delete, or update the tags of a switch	Cisco Meraki - Sm	Validated	Cisco-Managed
Meraki - Get Network Wireless Failures List of all failed client connection events	Cisco Meraki - Wireless	Validated	Cisco-Managed
Meraki - Get Administered Licenses Get compliance status for requested licenses	Cisco Meraki - Licensing	Validated	Cisco-Managed
Meraki - Update Network Cellular Gateway Update the subnet pool and mask for a cellular gateway	Cisco Meraki - Cellulargateway	Validated	Cisco-Managed
Meraki - Update Network Switch Storm Control Update the storm control configuration for a switch network	Cisco Meraki - Switch	Validated	Cisco-Managed
Meraki - Update Network Wireless SSID Schedules Update the outage schedule for the SSID	Cisco Meraki - Wireless	Validated	Cisco-Managed

☐ Cisco Meraki - Adaptive Policy

☐ Cisco Meraki - Administered

☐ Cisco Meraki - Appliance

☐ Cisco Meraki - Camera

☐ Cisco Meraki - Campusgateway

☐ Cisco Meraki - Cellulargateway

☐ Cisco Meraki - Devices

☐ Cisco Meraki - Firmware

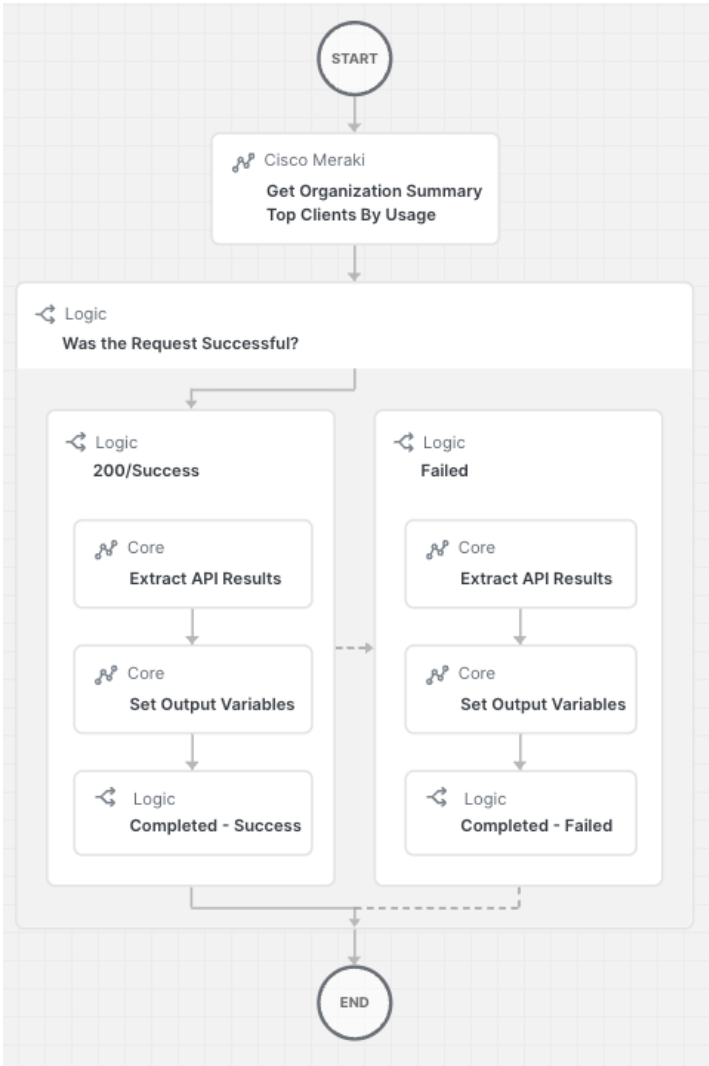
☐ Cisco Meraki - Insight

☐ Cisco Meraki - Licensing

☐ Cisco Meraki - Networks

☐ Cisco Meraki - Organizations

☐ Cisco Meraki - Sensor



Workflow Properties

Demo Workflow

General

1

Display Name*

13 / 64

Demo Workflow

Owner

enovak@cisco.com

Description

Write

Preview

37 / 1024

H B I G 99 </> ☰ ☷ ☹

Markdown ▾ ↗

This demo workflow is a custom Atomic

☐ 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.

☒ 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 ▾

☒ 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 ^

- AI
- Ansible Tower
- Atomic
- Cisco API Console
- Cisco Catalyst Center
- Cisco Catalyst SDWAN
- Cisco FMC
- Cisco ISE

Target >

☒ 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* ⓘ

Custom Atomic ^

No Results Available

Create: **Custom Atomic**

☒ 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*

Atomic

Category

☐ Agentic Workflows

☐ Cisco Meraki - Adaptive Policy

☐ Cisco Meraki - Administered

☐ Cisco Meraki - Appliance

☐ Cisco Meraki - Camera

☐ Cisco Meraki - Campusgateway

☐ Cisco Meraki - Cellulargateway

☐ Cisco Meraki - Devices

☐ Cisco Meraki - Firmware

+

Add new

Workspace

Manage the lifecycle of your automations and apply process governance. Create, collaborate, validate, approve, organize, share.

Workflows3

Atomics974

Recently Run

Favorites7

Workflows

Search

Q

Search

Category

Select

Owner

Select

Display name

Demo Workflow

This demo workflow is a custom A

Meraki - Get Organization Summa

Return metrics for organization's t

Get Organization Appliance VPN

Return the firewall rules for an org

☐ Agentic Workflows

☐ Cisco Meraki - Adaptive Policy

☐ Cisco Meraki - Administered

☐ Cisco Meraki - Appliance

☐ Cisco Meraki - Camera

☐ Cisco Meraki - Campusgateway

☐ Cisco Meraki - Cellulargateway

☐ Cisco Meraki - Devices

Status

Validated

Validated

Validated

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BRKOPS-1156



[← Back to Workspace](#)

Create Network and Configure SSIDs

Last Modified: October 24, 2025 at 4:29:25 PM

Workflow is unlocked

More Actions ▾

Validated

Run

Q

Search activities

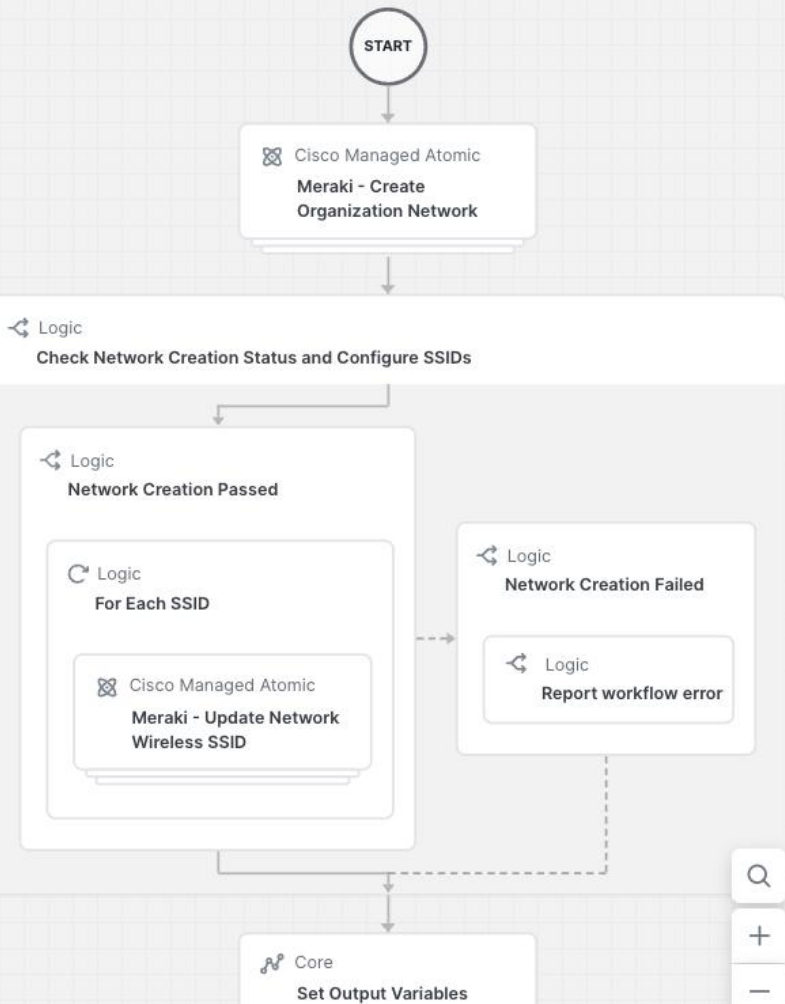
Show only User-Managed ⓘ

Activities

Logic

Workflows

Workflows ▾

Compliance - Meraki Network VLAN AuditCompliance - SSID AuditCompliance - Wireless Firewall & Traffic Shaping AuditCompliance - Device Tag AuditCompliance - Group Policy AuditCompliance - L3 Firewall Rules AuditCompliance - DHCP AuditCompliance Audit on Multi-Organization Networks by Tag

Workflow Properties

Create Network And Configure SSIDs

General ▾

Display Name*

34 / 64

Create Network and Configure SSIDs

Owner

enovak@cisco.com

Description

Write

Preview

70 / 1024

H B I

Markdown ▾

This workflow creates a new Network and configures the Wireless SSIDS

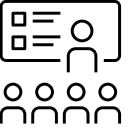
☐ Clean up after successful execution

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.

Variables



- **Input** – provide values before the workflow runs.
- **Output** – values available after an atomic action or sub-workflow runs; used by subsequent activities
- **Local** – exist within an individual workflow or atomic action; values do not persist across workflow runs
- **Static** – only exist within an individual workflow. A pre-set value that can be modified with a Set Variables activity. The new value defined by the Set Variables activity persists across workflow runs.
- **Global** – store information between runs of a workflow or share information between different workflows; Automation -> Variables

Variable documentation

No Code – Declaring Variables

Meraki

Q

Search

?

← Back to Workspace

Demo Workflow

Last Modified: October 10, 2025 at 4:48:06 PM

Workflow is unlocked

More Actions ▾

Validate

Run

Q Search activities

Show only User-Managed ⓘ

Activities

Logic

Workflows

Core >

AI >

Ansible Tower >

Cisco API Console >

Cisco Catalyst Center >

Cisco Catalyst SDWAN >

Cisco FMC >

Cisco ISE >

Cisco Meraki >

Cisco Umbrella >

Cisco Webex >

Drag activity here

Q

+

–

Workflow Properties

Demo Workflow

General >

Variables ▾

Name	Type	Scope	Value	Required
<div>+ Add variable</div>				

Automation Rules >

Version >

Exchange >

Target >

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BRKOPS-1156

No Code – Declaring Variables

Meraki

← Back to Workspace

Demo Workflow

Last Modified: October 10, 2025 at 4:48:06 PM

Q Search activities

Show only User-Managed

i

Activities

Logic

Workflows

Core

>

AI

>

Ansible Tower

>

Cisco API Console

>

Cisco Catalyst Center

>

Cisco Catalyst SDWAN

>

Cisco FMC

>

Cisco ISE

>

Cisco Meraki

>

Cisco Umbrella

>

Cisco Webex

>

New Variable

Data Type

String

▼

General

Display Name*

0 / 64

Description

0 / 1024

Scope*

Local

▼

String Type

Select

▼

Optional field used for the best editing experience.

Value

Text ▼

Cancel

Save

Q Search

?

Unlocked

More Actions ▼

Validate

Run

Workflow Properties

Demo Workflow

General

>

Variables

▼

Name	Type	Scope	Value	Required
<div>+ Add variable</div>				

Automation Rules

>

Version

>

Exchange

>

Target

>

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BRKOPS-1156

No Code – Declaring Variables

New Variable

Data Type

String

General

Display Name*

0 / 64

Description

0 / 1024

Scope*

Input

Local

Output

Static

Text

Cancel

Save

New Variable

Data Type

Base Types

String

Boolean

Date Time

Decimal

File

Integer

Large String

Secure String

+ Add new

String Type

Select

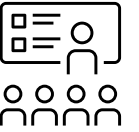
Optional field used for the best editing experience.

Value

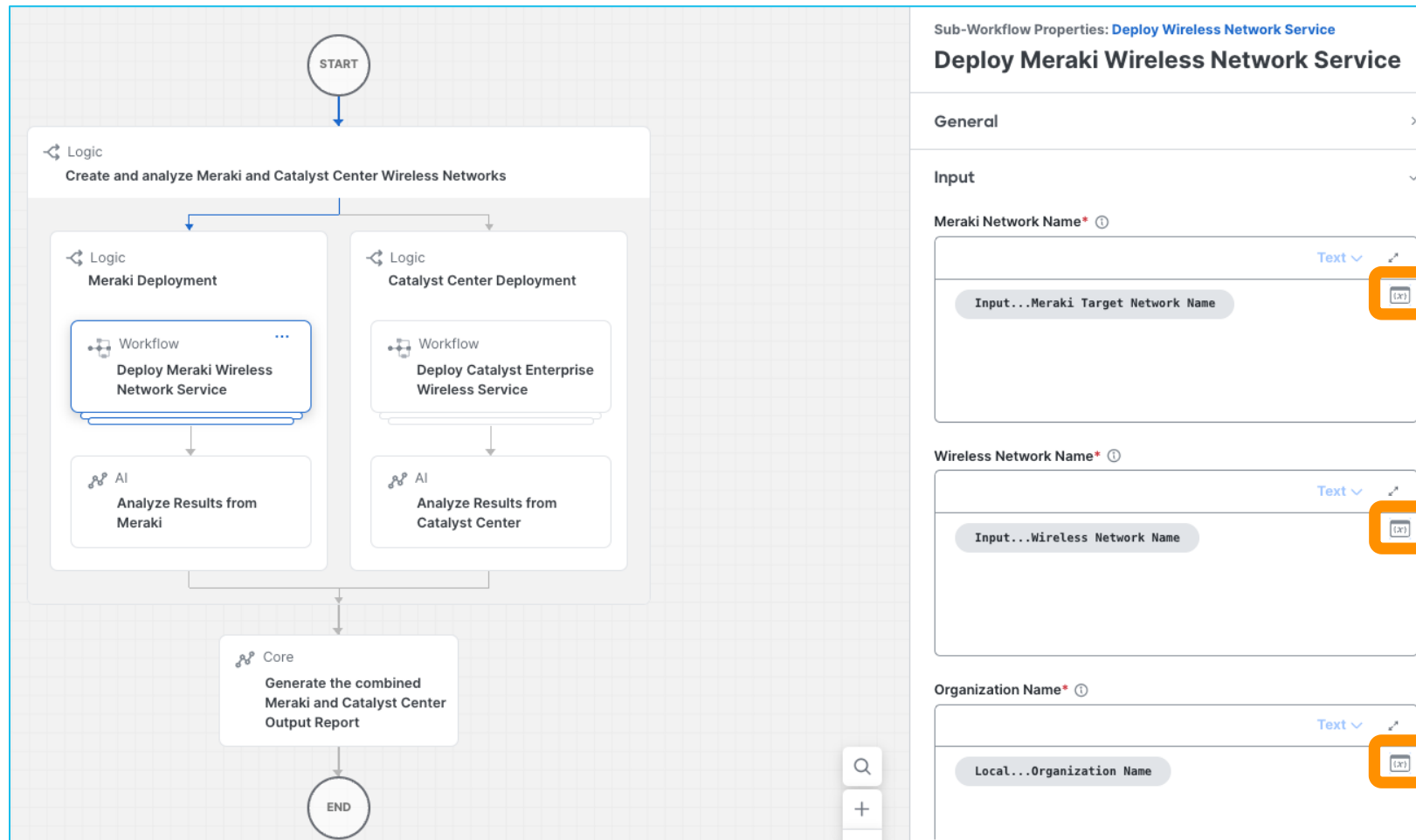
Cancel

Save

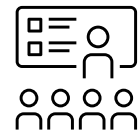
No Code - Mapping values



Click the  (Variable Reference) icon in a field to use the variable browser



No Code - Mapping values



Browse Variables

Activities >

Env >

Global >

Workflow >

Input >

Local >

Output >

Target >

Authorization Mode
ENUM

Encryption Mode
ENUM

Meraki Target Network Name ✓
STRING

Passkey
SECURE STRING

SSID Number
STRING

Wireless Network Name
STRING

Cancel

Save

No Code - Mapping values



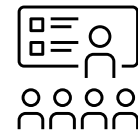
Browse Variables

Activities >	Create and analyze Meraki and Catalyst Center Wireless Networks PARALLEL	Start time DATE	Start time DATE	Start time (seconds) DECIMAL
Env >		Succeeded BOOLEAN	Succeeded BOOLEAN	End time DATE
Global >		Error > OBJECT	Error > OBJECT	Start time DATE
Workflow >		Meraki Deployment > PARALLEL BLOCK	Deploy Meraki Wireless Network Service > SUB WORKFLOW	Succeeded BOOLEAN
		Catalyst Center Deployment > PARALLEL BLOCK	Analyze Results from Meraki > OPENAI STRUCTURED OUTPUT AGENT	Output - Result ✓ STRING
				Error > OBJECT

Cancel

Save

No code – Conditionals



← Back to Workspace

Demo Workflow

Last Modified: November 3, 2025 at 10:18:37 AM

Workflow is unlocked

More Actions ▾

Validate

Run



Search activities

Show only User-Managed ⓘ

Activities

Logic

Workflows

Loops >

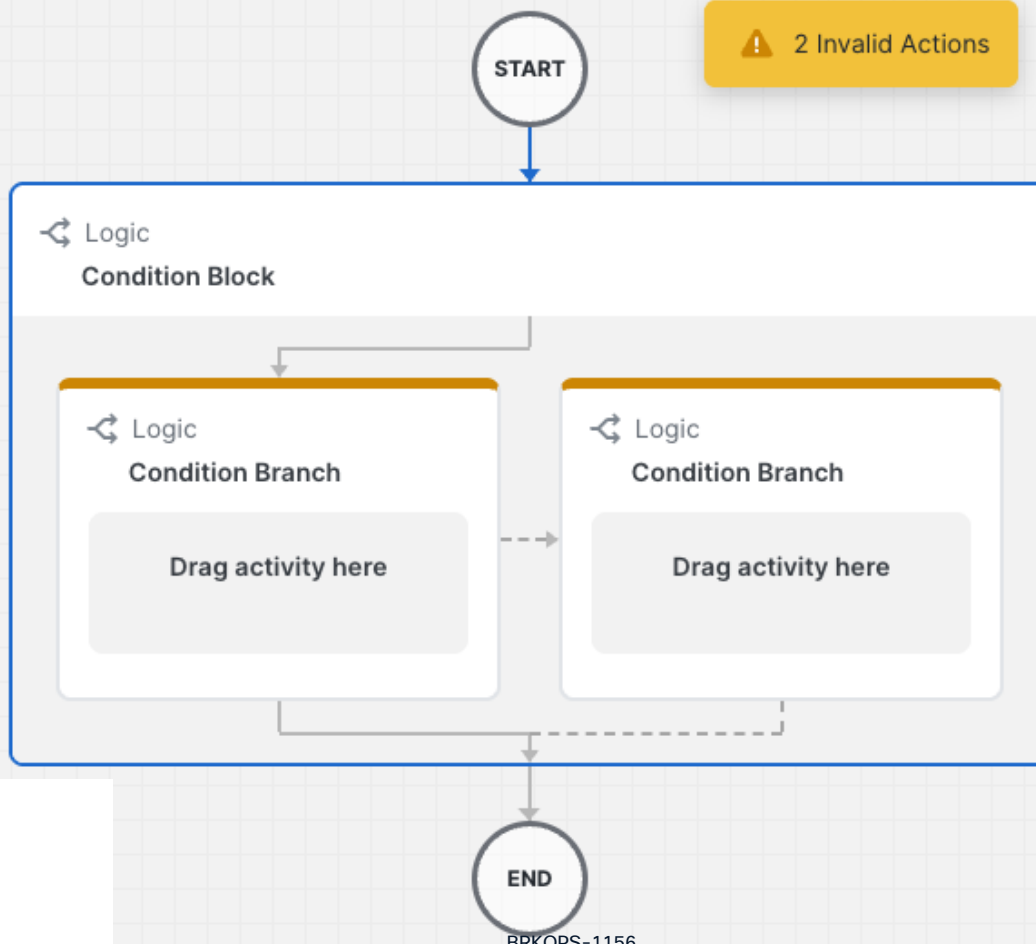
Conditions ▾

Condition Block

Start Point

Completed

Other >



Properties: Condition Block

Condition Block

General ▾

Display Name 15 / 64

Condition Block

Description 23 / 1024

If-Else condition block

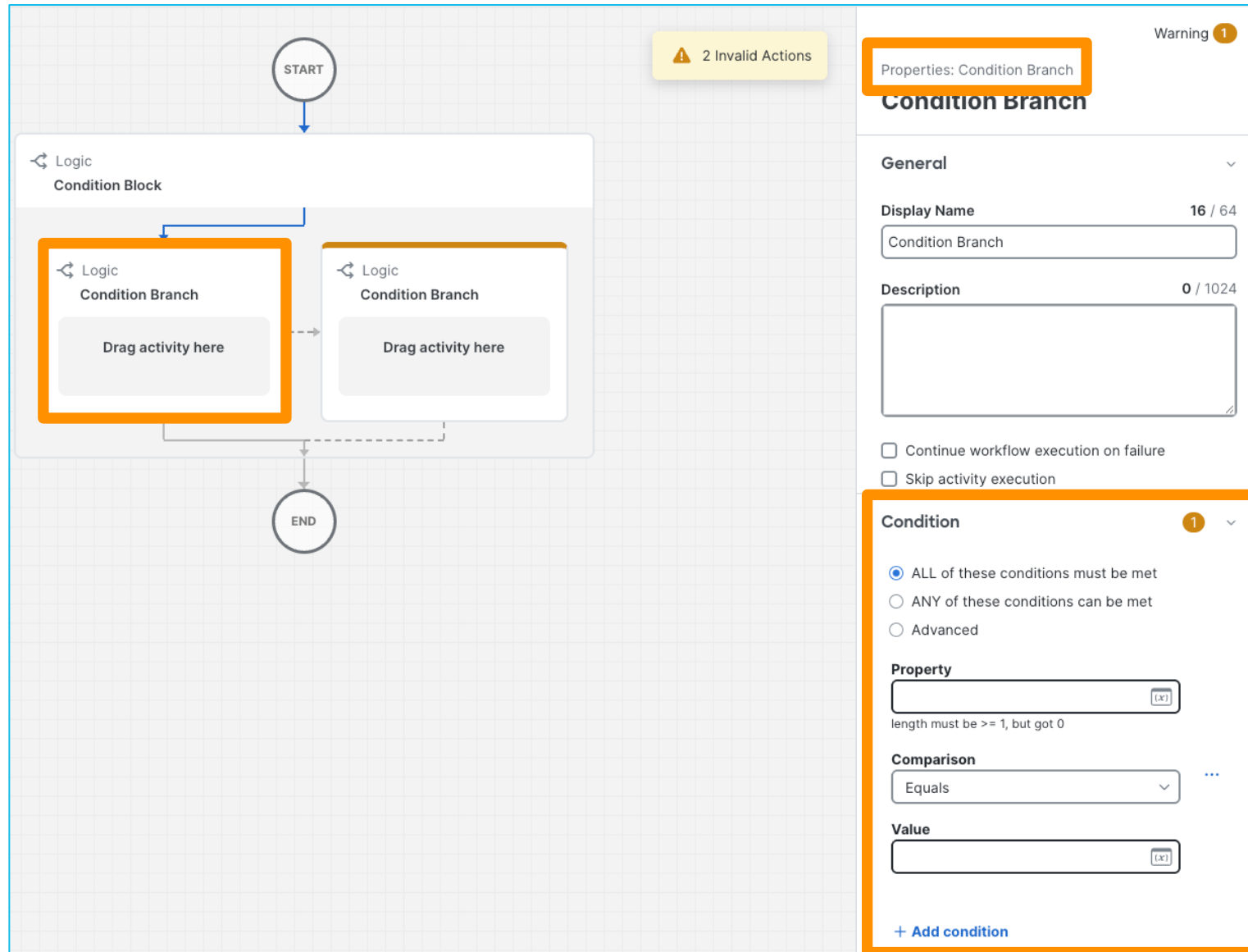
☐ Continue workflow execution on failure

☐ Skip activity execution

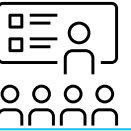
Links:

- [Condition Block documentation](#)
- [Video lesson](#)

No code - Conditionals



No code - Conditionals



Condition 2

☒ ALL of these conditions must be met
☐ ANY of these conditions can be met
☐ Advanced

Property

[x]

Property field is empty. Please supply a value.

Comparison

Equals

Value

[x]

Value field is empty. Please supply a value.

+ Add condition

Condition 1

☒ ALL of these conditions must be met
☐ ANY of these conditions can be met
☐ Advanced

Property

[x]

length must be >= 1, but got 0

Comparison

Does not match wildcard
Equals ✓
Equals (case insensitive)
Matches regular expression
Matches wildcard
Not Equals

Condition 1

☒ ALL of these conditions must be met
☐ ANY of these conditions can be met
☐ Advanced

Property

[x]

length must be >= 1, but got 0

Comparison

Equals

Value

[x]

Value field is empty. Please supply a value.

+ Add condition

No code - Conditionals



Condition 4 ▾

☒ ALL of these conditions must be met

☐ ANY of these conditions can be met

☐ Advanced

Property

[x]

Comparison

Equals ▾ ...

Value

[x]

AND

Property

[x]

Comparison

Equals ▾ ...

Value

[x]

[+ Add condition](#)

Condition 4 ▾

☐ ALL of these conditions must be met

☒ ANY of these conditions can be met

☐ Advanced

Property

[x]

Comparison

Equals ▾ ...

Value

[x]

OR

Property

[x]

Comparison

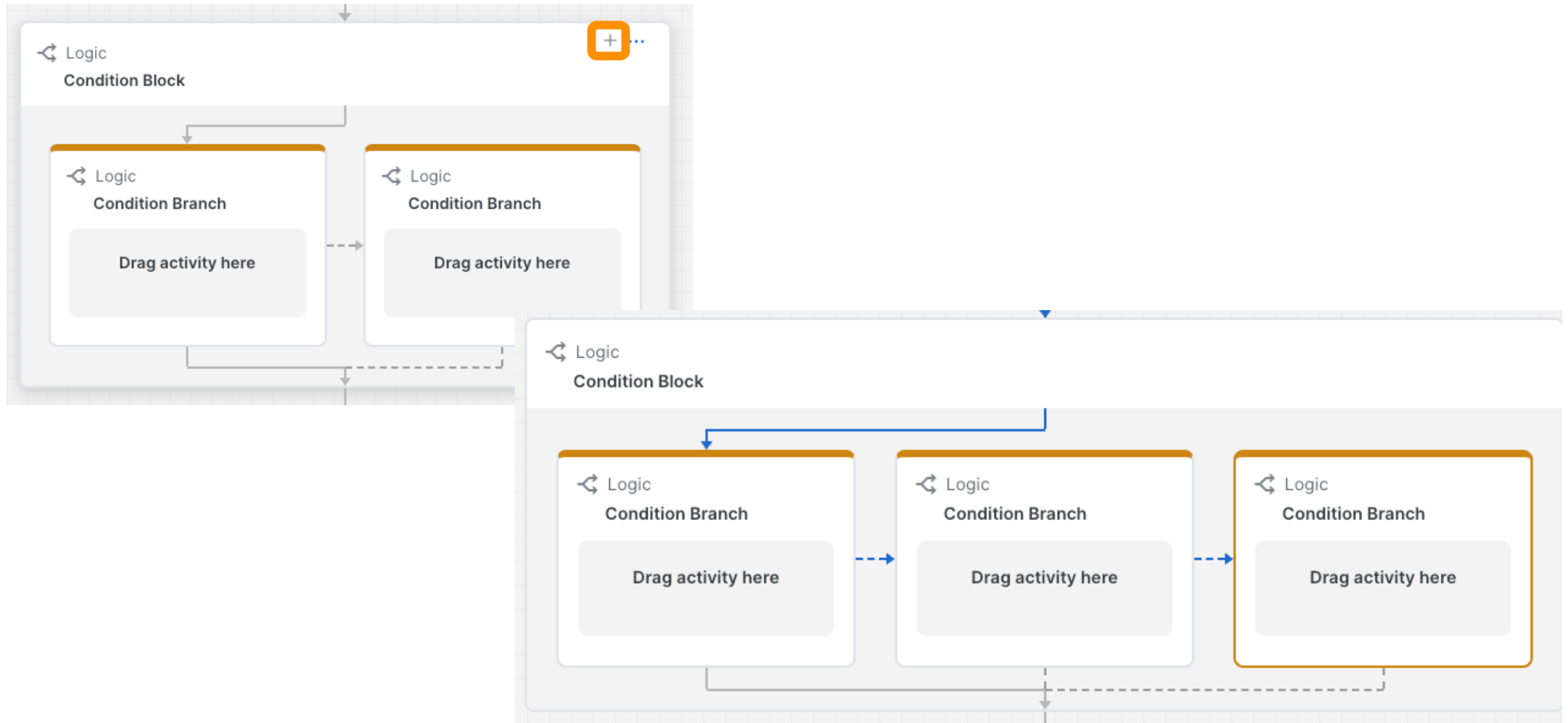
Equals ▾ ...

Value

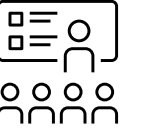
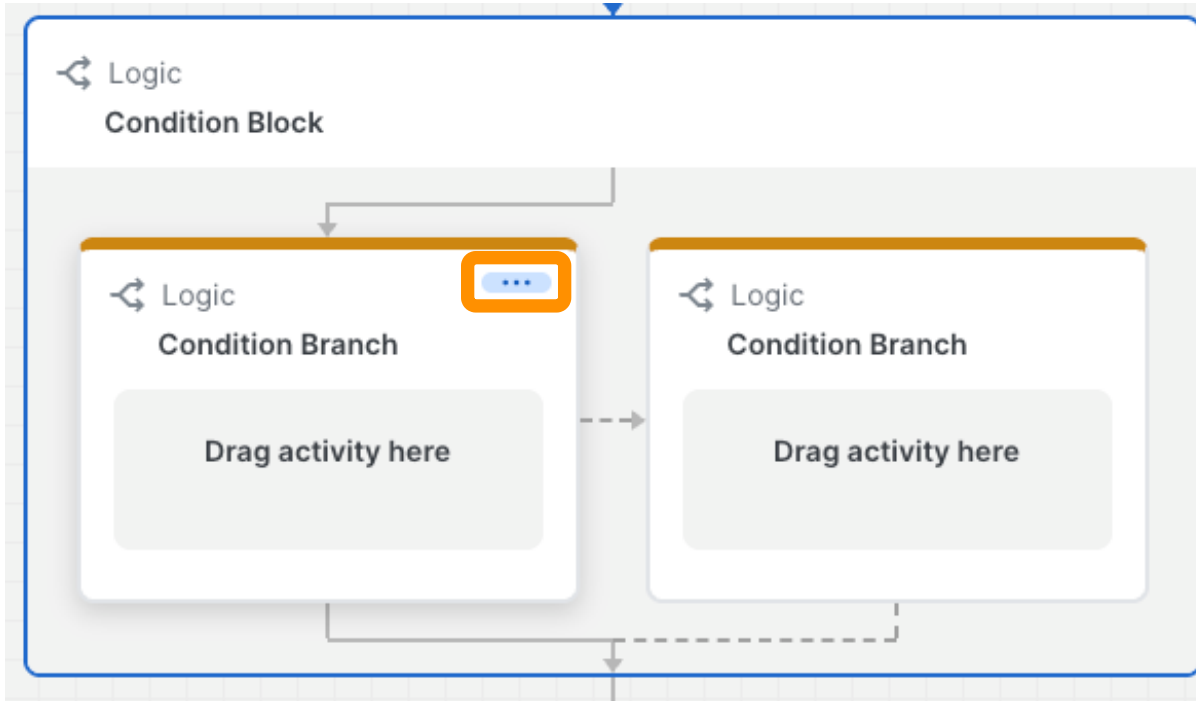
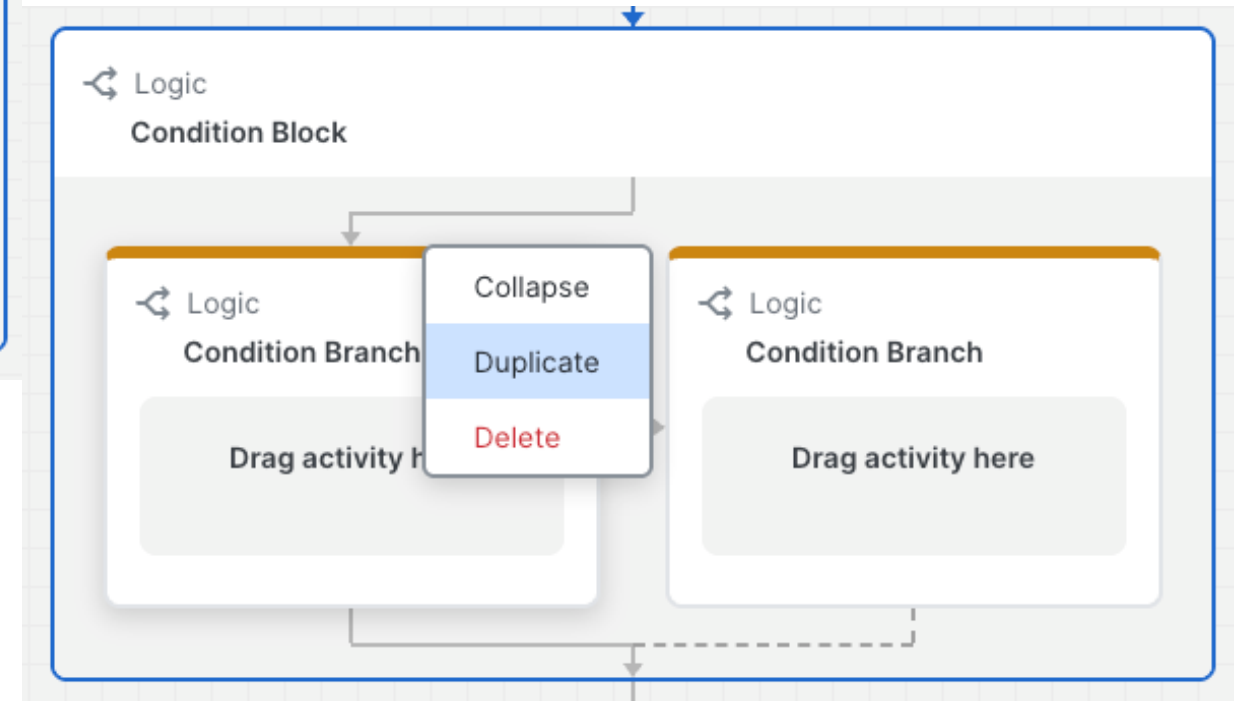
[x]

[+ Add condition](#)

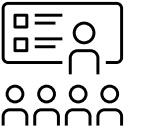
No code – Conditionals – Adding Branches



No code – Conditionals – Duplicate Branch



No Code – For Each Loops



START

Logic
For Each

Drag activity here

END

Warning 1

1 Invalid Actions

Properties: For Each

For Each

General 1

Display Name 8 / 64

For Each

Description 13 / 1024

ForEach block

Source Array*

[x]

☐ Continue workflow execution on failure

☐ Skip activity execution

Links:

- [Loop documentation](#)
- [Video lesson](#)

No Code – While Loops



START

Logic

While Loop

Logic

Condition Branch

Drag activity here

END

Warning 1

1 Invalid Actions

Properties: Condition Branch

Condition Branch

General

Display Name16 / 64

Condition Branch

Description0 / 1024

☐ Continue workflow execution on failure

☐ Skip activity execution

Condition1

☒ ALL of these conditions must be met

☐ ANY of these conditions can be met

☐ Advanced

Property

[X]

length must be >= 1, but got 0

Comparison

Equals

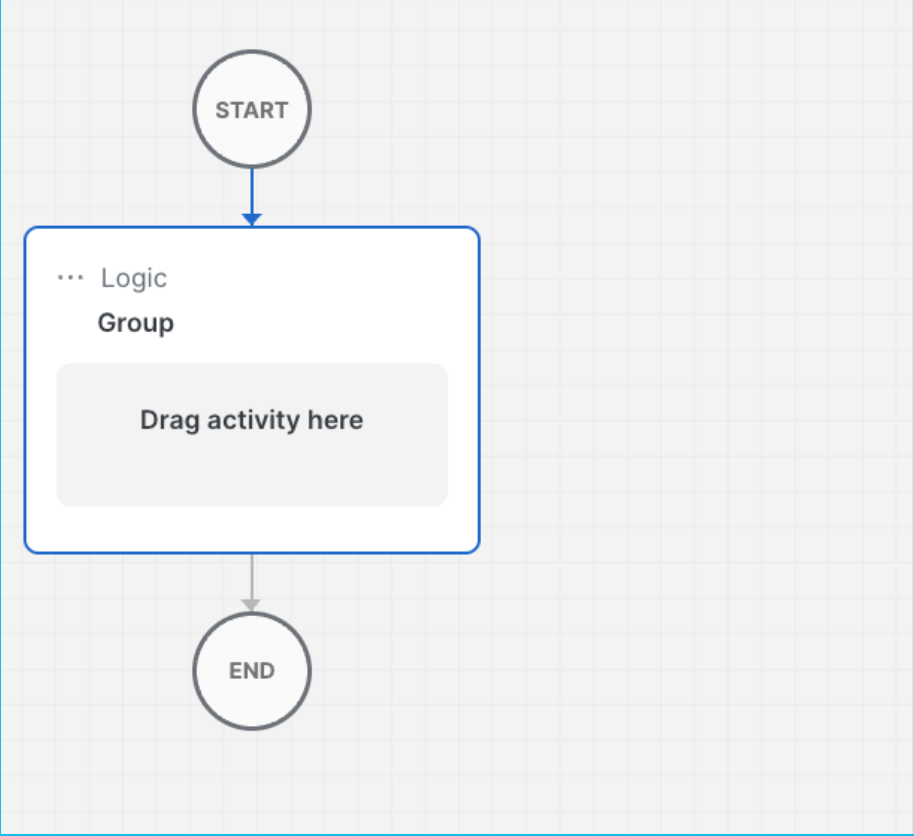
...

Value

[X]

+ Add condition

Logic – Group



The diagram shows a workflow on a grid background. It starts with a circular 'START' node at the top. An arrow points down to a rectangular 'Logic Group' activity box. Inside this box, there is a smaller grey box with the text 'Drag activity here'. Another arrow points down from the 'Logic Group' box to a circular 'END' node at the bottom.

Properties: Group

Group

General ▾

Display Name 5 / 64

Group

Description 5 / 1024

Group

☐ Continue workflow execution on failure

☐ Skip activity execution

Logic - Group example

START

Logic
Configuration Harvesting

Cisco Managed Atomic
Get Source Switch Ports

Table
Source Read Table from JSON

Cisco Managed Atomic
Get Target Switch Ports

Table
Target Read Table from JSON

Core
Set Port Count Variables

Properties: Group

Configuration Harvesting

General

Display Name24 / 64
Configuration Harvesting

Description109 / 1024
A collection of activities that retrieves the switch port configurations from the Target and Source switches.

☐ Continue workflow execution on failure

☐ Skip activity execution

Logic – Parallel Block

The flowchart illustrates a parallel execution block. It begins with a circular 'START' node at the top. An arrow points down from 'START' to a large rectangular container labeled 'Parallel Block'. Inside this container, the flow splits into two parallel paths. Each path is represented by a box labeled 'Parallel Branch' with a 'Logic' icon. Below each 'Parallel Branch' box is a light gray rectangular area with the text 'Drag activity here'. After the two parallel paths, the flow lines merge and an arrow points down from the bottom of the 'Parallel Block' container, indicating the continuation of the workflow.

Properties: Parallel Block

Parallel Block

General ▾

Display Name 14 / 64

Parallel Block

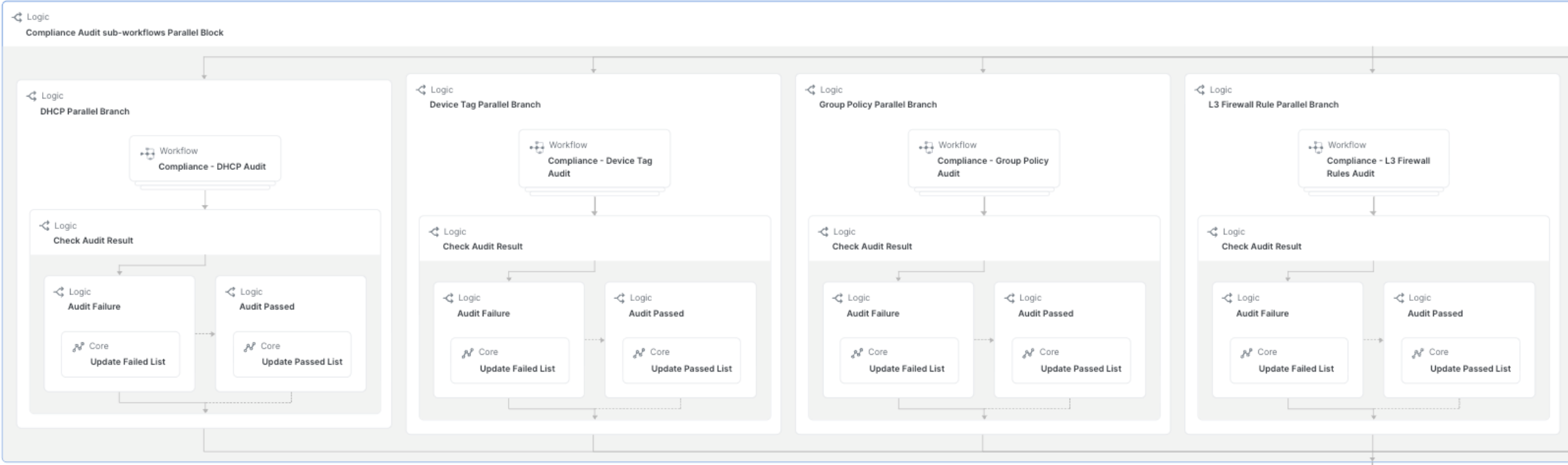
Description 21 / 1024

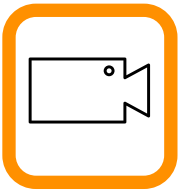
Parallel block action

☐ Continue workflow execution on failure

☐ Skip activity execution

Logic - Parallel Block example



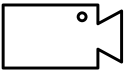


Live Demo

Create a Simple Workflow

+ Create workflow

Simple Workflow Demo



What is the intent of this workflow?

Blank Custom Workflow



Workflow with Automation Rule



Blank Custom Workflow

Workflow details

Blank custom workflows allow you to create any workflow to automate repetitive tasks or integrate with a solution, using pre-built or custom activities and logic.

Cancel

Continue

Simple Workflow Demo



New Blank Custom Workflow

Blank custom workflows allow you to create any workflow to automate repetitive tasks or integrate with a solution, using pre-built or custom activities and logic.

Workflow display name* ⓘ

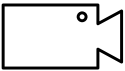
34 / 64

Create Network and Configure SSIDs|

Cancel

Continue

Simple Workflow Demo



← Back to Workspace

Create Network and Configure SSIDs

Last Modified: October 10, 2025 at 8:54:28 PM

Workflow is unlocked

More Actions

Validate

Run

Search activities

Show only User-Managed

Activities

Logic

Workflows

Core

AI

Ansible Tower

Atomic

Cisco API Console

Cisco Catalyst Center

Cisco Catalyst SDWAN

Cisco FMC

Cisco ISE

Cisco Meraki

Cisco Umbrella

Workflow Properties

Create Network And Config...

General

Variables

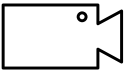
Automation Rules

Version

Exchange

Target

Simple Workflow Demo



Workflow Properties

Create Network And Config...

General

>

Variables

>

Automation Rules

>

Version

>

Exchange

>

Target

▼

☐ No target

☒ Execute on this target

Target Type* ⓘ

Meraki Endpoint

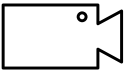
▼

Target*

Workflows TME

▼

Simple Workflow Demo



Workflow Properties

Create Network And Config...

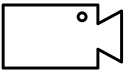
General >

Variables v

Name	Type	Scope	Value	Required
------	------	-------	-------	----------

+ Add variable

Simple Workflow Demo



New Network Name

Data Type

String

▼

General

Display Name* 12 / 64

Network Name

Description 0 / 1024

Scope*

Input

▼

- ☒ Required for workflow to run
- ☐ Display on install wizard

Please check this checkbox if you wish users to be able to configure this variable during the install wizard when installing the workflow.

String Type

Select

▼

Optional field used for the best editing experience.

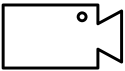
Value

Text ▼

Cancel

Save

Simple Workflow Demo



New Org ID

Data Type

String

General

Display Name* 6 / 64

Org ID

Description 0 / 1024

Scope*

Input

☒ Required for workflow to run

☐ Display on install wizard

Please check this checkbox if you wish users to be able to configure this variable during the install wizard when installing the workflow.

String Type

Select

Optional field used for the best editing experience.

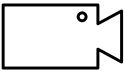
Value

Text

615867249042917618

Cancel Save

Simple Workflow Demo



New SSID Array

Data Type

Integer Array Type

▼

General

Display Name*

10 / 64

SSID Array

Description

0 / 1024

Scope*

Local

▼

Value ⓘ

Format

JSON ▼

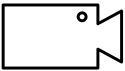
1

[0, 1, 2, 3, 4]

Cancel

Save

Simple Workflow Demo



New Network Product Types

Data Type

String Array Type

▼

General

Display Name* 21 / 64

Network Product Types

Description 0 / 1024

Scope*

Local

▼

Value ⓘ

FormatJSON ▼ ↗

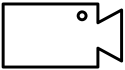
1

["appliance", "switch", "wireless"]

Cancel

Save

Simple Workflow Demo



← Back to Workspace

Create Network and Configure SSIDs

Last Modified: October 10, 2025 at 8:56:02 PM

Workflow is unlocked

More Actions

Validate

Run

Create Organization Network

Show only User-Managed

Activities Logic Workflows

Cisco Meraki

Meraki - Create Organization Network

START

Cisco Managed Atomic Meraki - Create Organization Network

END

1 Invalid Actions

Warnings 2

Atomic Properties: Meraki - Create Organization Network

Meraki - Create Organizatio...

General

Display Name* 36 / 64

Meraki - Create Organization Network

Description ⓘ 1016 / 1024

Cisco Meraki - Networks - Create Network

Create a network in Meraki Organization. To create a combined network, select more than one Product Types task will automatically create

Continue workflow execution on failure

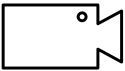
Skip activity execution

Input 2



Continue workflow execution on failure

Simple Workflow Demo



Input - Product Types* ⓘ

Format

JSON ▾ ↗

1	<div>[]</div> <div>(x)</div>
---	-------------------------------

Input - Product Types* ⓘ

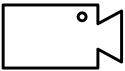
Format

JSON ▾ ↗

1	<div>Local...Network Product Types</div> <div>(x)</div>
---	---

 Input - Product Types is required

Simple Workflow Demo



Browse Variables

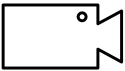
 Search

Env >	Input >	Network Product Types✓ ARRAY
Global >	Local >	SSID Array ARRAY
Workflow >	Output >	
	Target >	

Cancel

Save

Simple Workflow Demo



Input - Name* ⓘ

Text ▾ ↗

(x)

! Input - Name is required

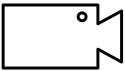
Input - Name* ⓘ

Text ▾ ↗

Input...Network Name

(x)

Simple Workflow Demo



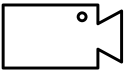
Browse Variables

Env >	Input >	Network Name ✓ STRING
Global >	Local >	
Workflow >	Output >	Org ID STRING
	Target >	

Cancel

Save

Simple Workflow Demo



Input - Organization ID* ⓘ

Text ▾ ↗

(x)

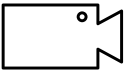
Input - Organization ID* ⓘ

Text ▾ ↗

Input...Org ID | (x)

⚠ Input - Organization Id is required

Simple Workflow Demo



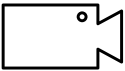
Browse Variables

Env >	Input >	Network Name STRING
Global >	Local >	
Workflow >	Output >	Org ID ✓ STRING
	Target >	

Cancel

Save

Simple Workflow Demo



Create Network and Configure SSIDs

Last Modified: October 10, 2025 at 8:56:02 PM

Workflow is unlocked

More Actions

Validate

Run

Search activities

Show only User-Managed

ActivitiesLogicWorkflows

Loops

Conditions

Condition Block

Start Point

Completed

Other

START

Cisco Managed Atomic
Meraki - Create
Organization Network

Logic
Condition Block

Logic
Condition Branch

Logic
Condition Branch

Drag activity here

Drag activity here

2 Invalid Actions

Properties: Condition Block

Condition Block

General

Display Name15 / 64

Condition Block

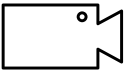
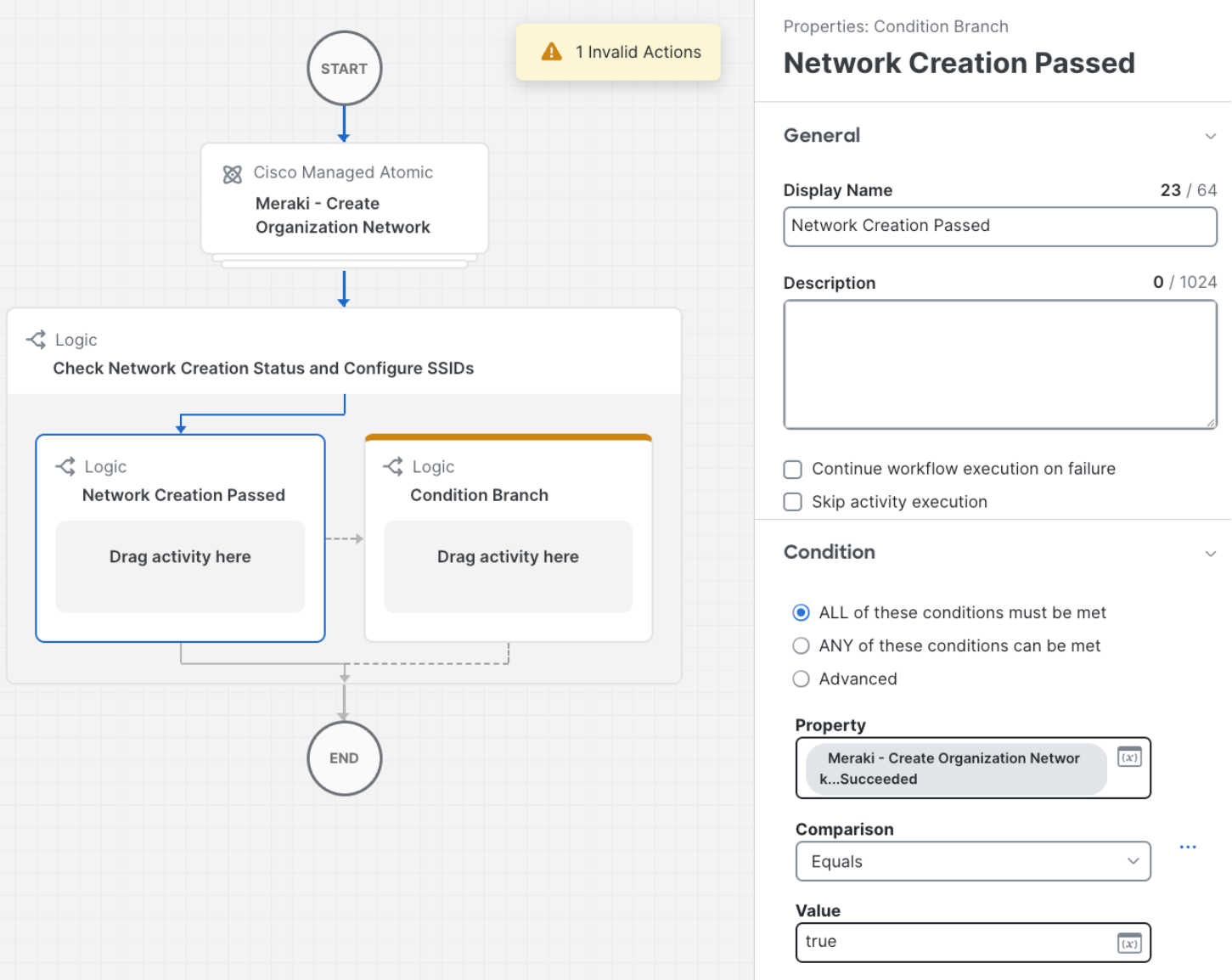
Description23 / 1024

If-Else condition block

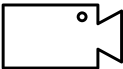
Continue workflow execution on failure

Skip activity execution

Simple Workflow Demo



Simple Workflow Demo



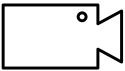
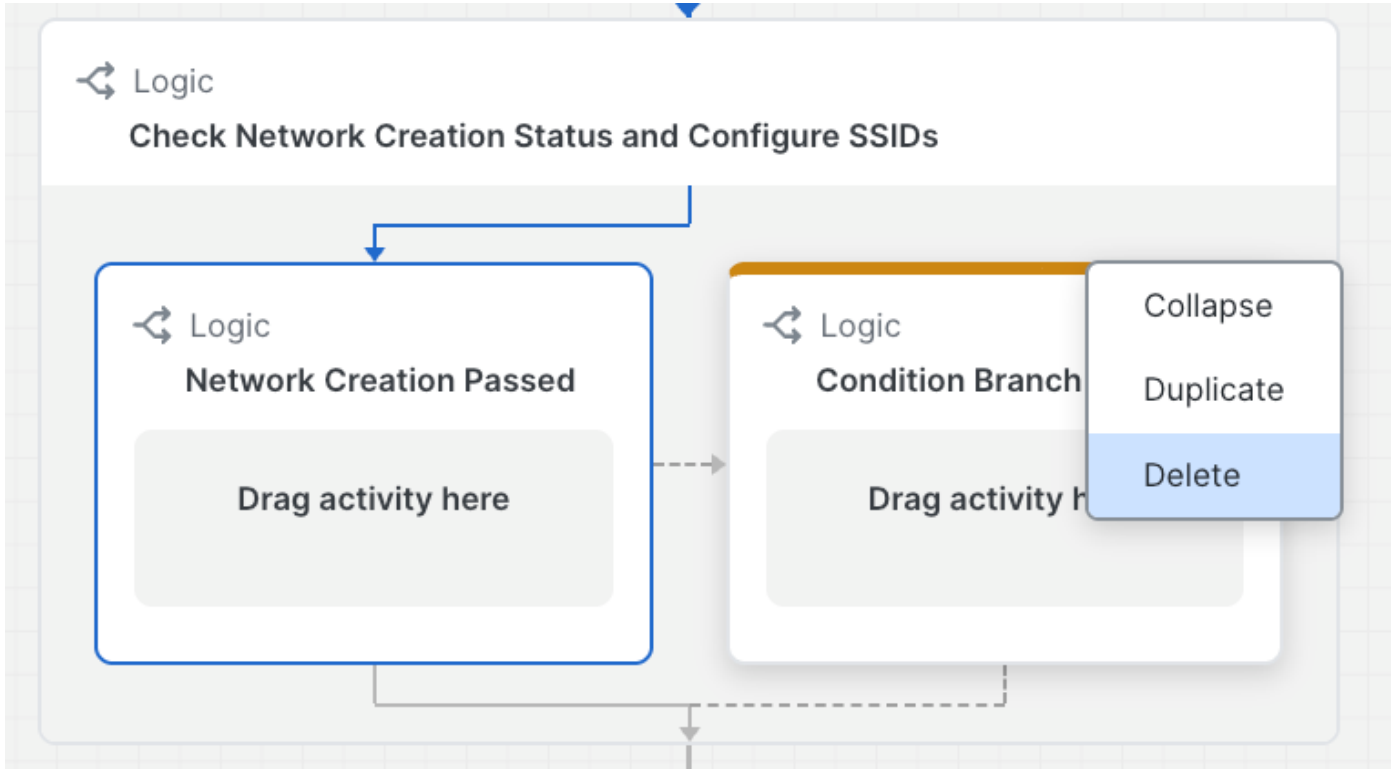
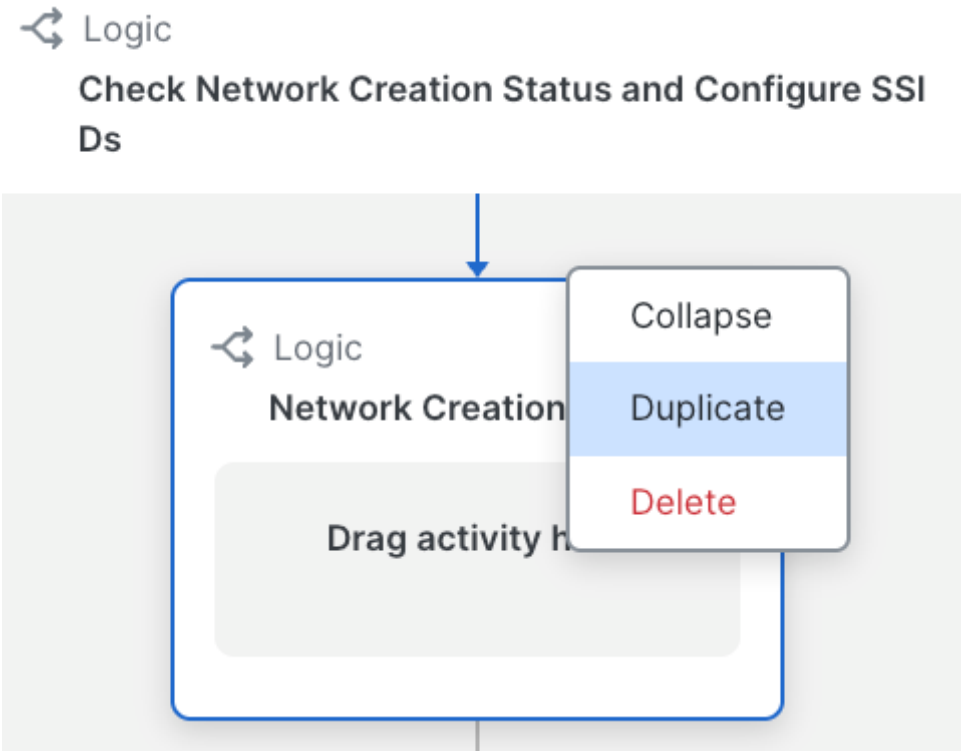
Browse Variables

Activities >	Meraki - Create Organization Network > ATOMIC WORKFLOW	Elapsed time (seconds) DECIMAL
Env >		End time DATE
Global >		Start time DATE
Workflow >		Succeeded ✓ BOOLEAN
		Output - Enrollment String STRING
		Output - Is Network Bound To BOOLEAN

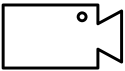
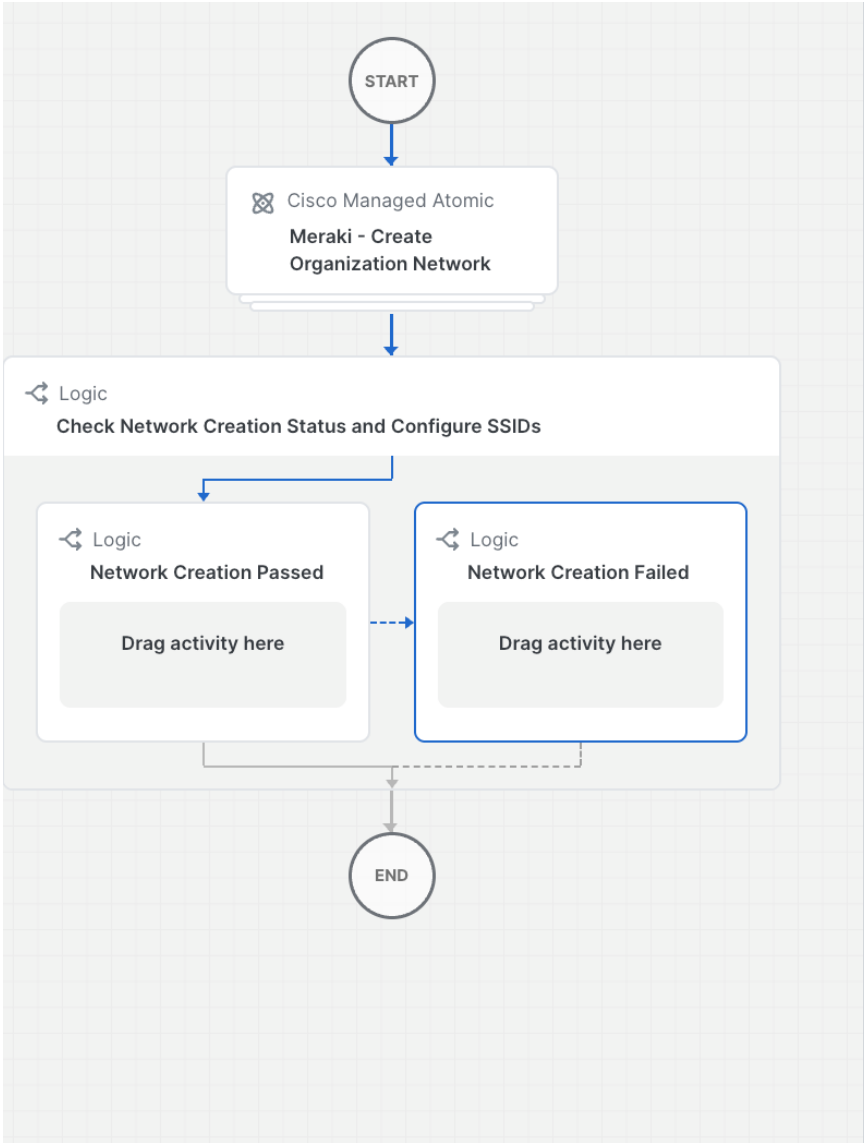
Cancel

Save

Simple Workflow Demo



Simple Workflow Demo



Properties: Condition Branch

Network Creation Failed

General

Display Name 23 / 64
Network Creation Failed

Description 0 / 1024

☐ Continue workflow execution on failure
☐ Skip activity execution

Condition

☒ ALL of these conditions must be met
☐ ANY of these conditions can be met
☐ Advanced

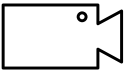
Property

Meraki - Create Organization Networ
k...Succeeded

Comparison

Equals
Not Equals

Simple Workflow Demo



Create Network and Configure SSIDs

Last Modified: October 10, 2025 at 8:56:02 PM

Workflow is unlocked

More Actions

Validate

Run

Search activities

Show only User-Managed

ActivitiesLogicWorkflows

Loops

Conditions

Condition Block

Start Point

Completed

Other

START

Cisco Managed Atomic
Meraki - Create Organization Network

Logic
Check Network Creation Status and Configure SSIDs

Logic
Network Creation Passed

Logic
Network Creation Failed

END

Properties: Completed

Completed

General

Display Name9 / 64

Description16 / 1024

Continue workflow execution on failure

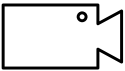
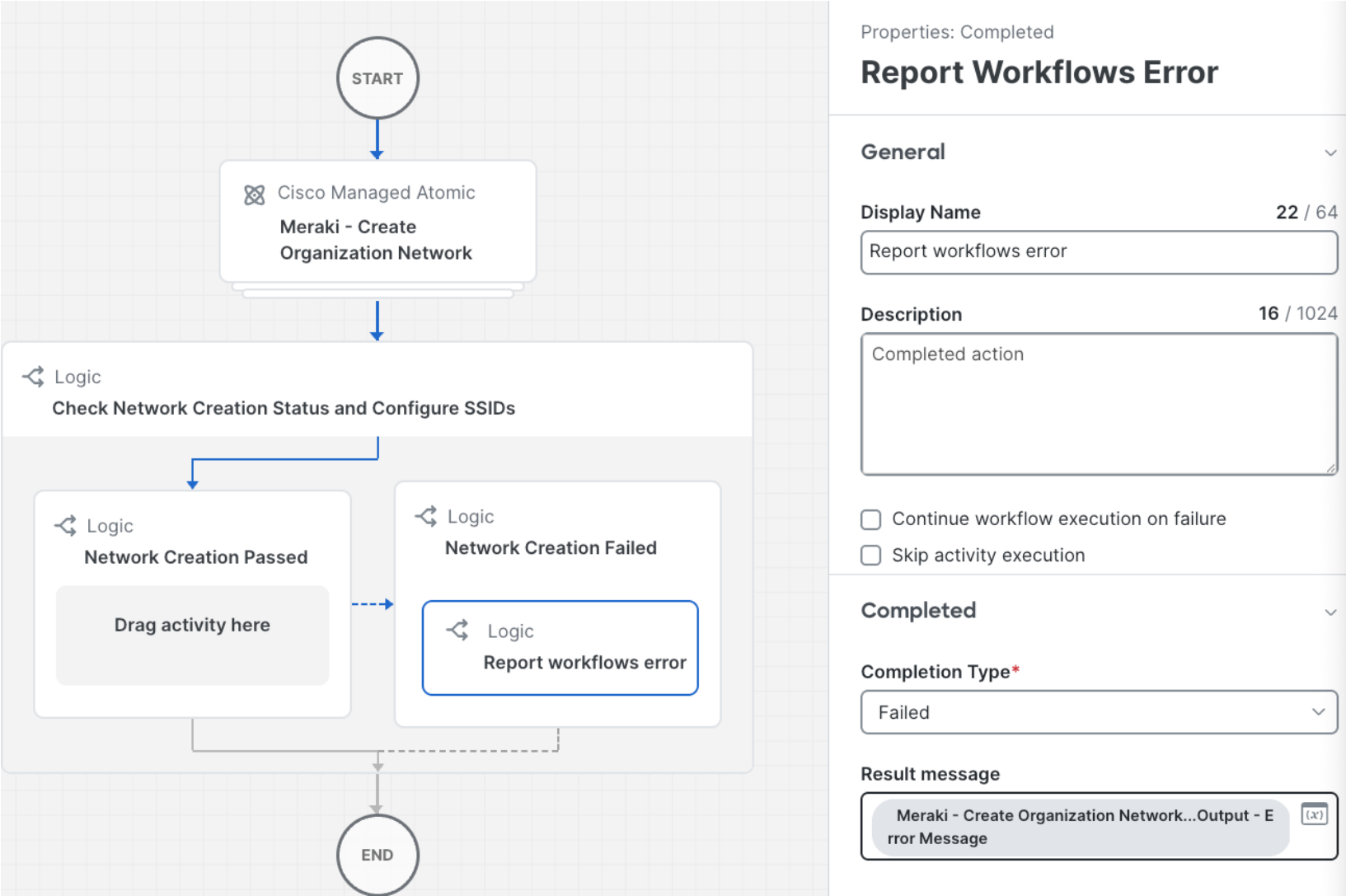
Skip activity execution

Completed

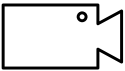
Completion Type*

Result message

Simple Workflow Demo



Simple Workflow Demo



Browse Variables

Activities >

Env >

Global >

Workflow >

Meraki - Create Organization Network >
ATOMIC WORKFLOW

Check Network Creation Status and Configure SSIDs >
IF ELSE

Zone
STRING

Output - Network Organization ID
STRING

Output - Network Tags
STRING

Output - Error Message ✓
STRING

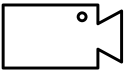
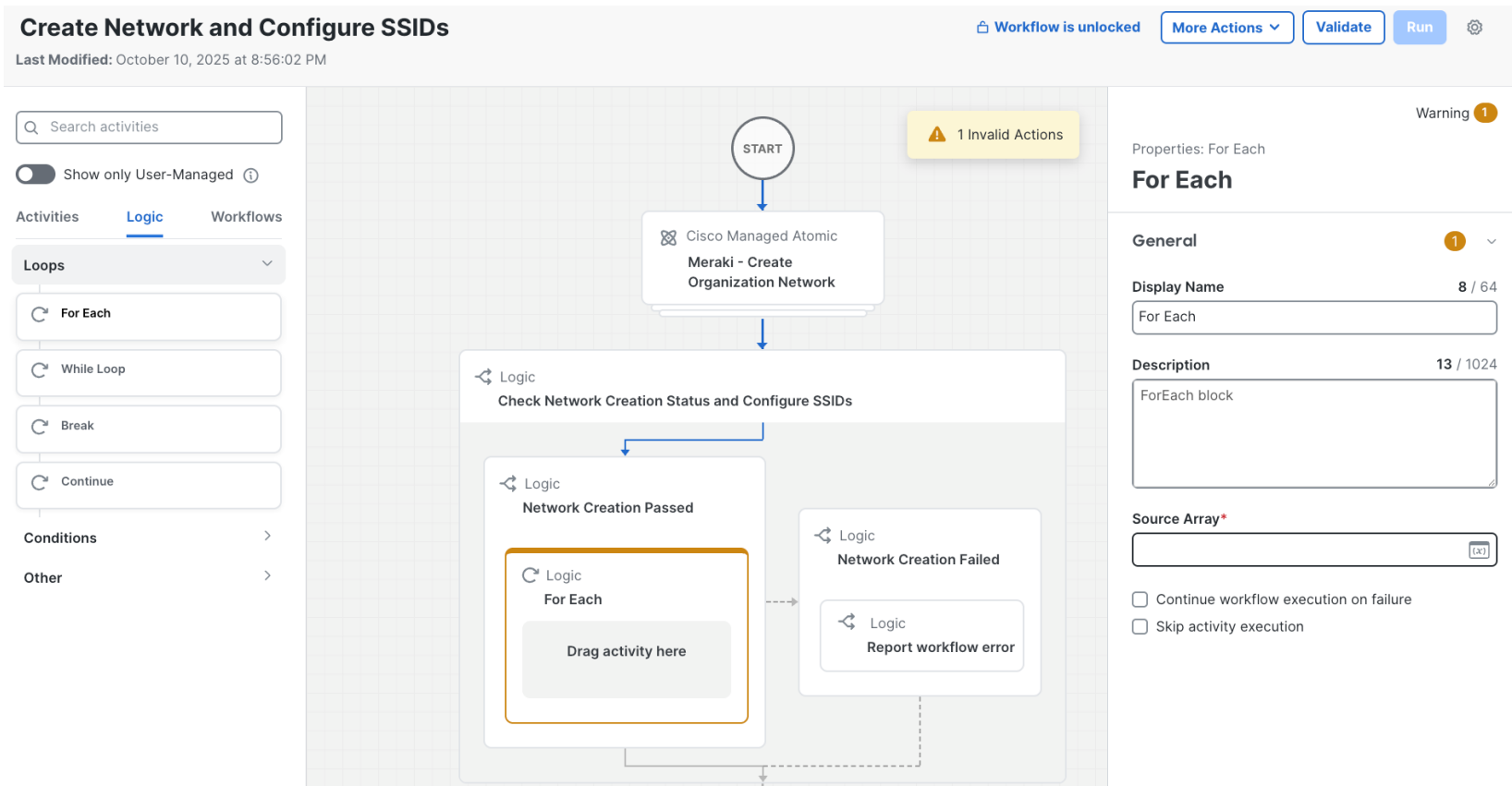
Output - Network URL
STRING

Output - Network Product

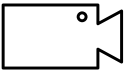
Cancel

Save

Simple Workflow Demo



Simple Workflow Demo



Properties: For Each

For Each SSID

General ⌵

Display Name 13 / 64

For Each SSID

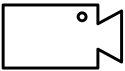
Description 13 / 1024

ForEach block

Source Array*

Local...SSID Array {x}

Simple Workflow Demo



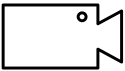
Browse Variables

Activities >	Input >	Network Product Types ARRAY
Env >	Local >	SSID Array ✓ ARRAY
Global >	Output >	
Workflow >	Target >	

Cancel

Save

Simple Workflow Demo



Create Network and Configure SSIDs

Workflow is unlocked

More Actions

Validate

Run

Last Modified: October 10, 2025 at 8:56:02 PM

Update Network Wireless SSID

Show only User-Managed

Activities

Logic

Workflows

Cisco Meraki

Meraki - Update Network Wireless SSID

Meraki - Update Network Wireless SSID Bonjour Forwarding

Meraki - Update Network Wireless SSID Device Type Group Policies

Meraki - Update Network Wireless SSID EAP Override

Meraki - Update Network Wireless SSID Firewall L3 Firewall Rules

Meraki - Update Network Wireless SSID Firewall L7 Firewall Rules

Meraki - Update Network Wireless SSID Hotspot20

Meraki - Update Network Wireless SSID Identity RF

START

Meraki - Create Organization Network

Logic

Check Network Creation Status and Configure SSIDs

Logic

Network Creation Passed

Logic

For Each SSID

Cisco Managed Atomic

Meraki - Update Network Wireless SSID

Logic

Network Creation Failed

Logic

Report workflow error

Warnings 2

Atomic Properties: Meraki - Update Network Wireless SSID

Meraki - Update Network Wir...

General

Display Name*

37 / 64

Meraki - Update Network Wireless SSID

Description

35 / 1024

Update the attributes of an MR SSID

Continue workflow execution on failure

Skip activity execution

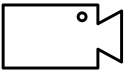
Input

Input - Use VLAN Tagging

Text

[x]

Simple Workflow Demo



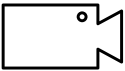
Input - Enabled ⓘ

Text ▾ ↗

true

{x}

Simple Workflow Demo



Input - Network ID* ⓘ

Text ▾ ↗

{x}

Input - Network ID* ⓘ

Text ▾ ↗

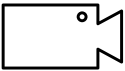
Meraki - Create Organization Network...Output

{x}



Input - Network Id is required

Simple Workflow Demo



Browse Variables

 Search

Activities >

Env >

Global >

Workflow >

Meraki - Create Organization Network >
ATOMIC WORKFLOW

Check Network Creation Status and Configure SSIDs >
IF ELSE

Output - Result
STRING

Output - Network Name
STRING

Output - Network ID ✓
STRING

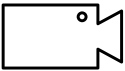
Output - Network Time Zone
STRING

Output - Network Organization ID
STRING

Cancel

Save

Simple Workflow Demo



Input - SSID Number* ⓘ

Text ▾ ↗

{x}

Input - SSID Number* ⓘ

Text ▾ ↗

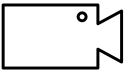
For Each SSID...Items in Source Array

{x}



Input - Ssid Number is required

Simple Workflow Demo



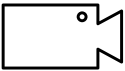
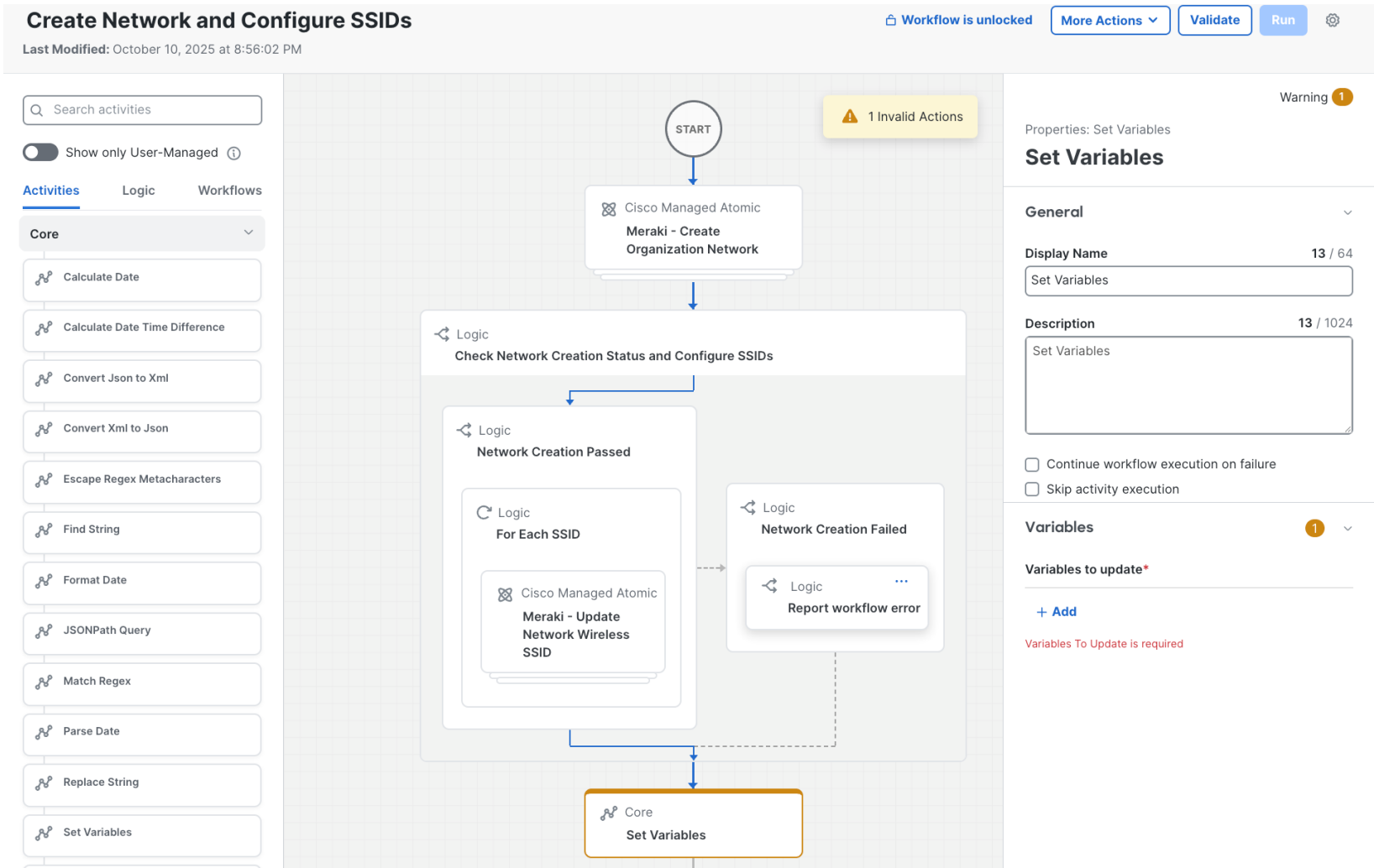
Browse Variables

Activities >	Meraki - Create Organization Network > ATOMIC WORKFLOW	Network Creation Passed > CONDITION BLOCK	For Each SSID > FOR EACH	End time DATE	Columns
Env >	Check Network Creation Status and Configure SSIDs > IF ELSE			Start time DATE	Items ✓ INTEGER
Global >				Succeeded BOOLEAN	First INTEGER
Workflow >				Error > OBJECT	Last INTEGER
				Source Array > ARRAY	

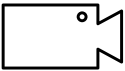
Cancel

Save

Simple Workflow Demo



Simple Workflow Demo



Warning 1

Properties: Set Variables

Set Variables

General

▼

Display Name 20 / 64

Set Output Variables

Description 13 / 1024

Set Variables

☐ Continue workflow execution on failure

☐ Skip activity execution

Variables

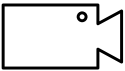
1 ▼

Variables to update*

+ Add

Variables To Update is required

Simple Workflow Demo



Browse Variables

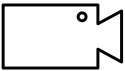
 Search

Activities >	Input >	Instance Id STRING
Env >	Local >	Start time DATE
Global >	Output >	Started By (ID) ⓘ STRING
Workflow >		Started By (Type) ⓘ STRING
		Workflow Result ⓘ ✓ STRING
		Workflow Result Code ⓘ

Cancel

Save

Simple Workflow Demo



Variables ▼

Variables to update*

Variable to update*

Output...Workflow Result (x)

New value

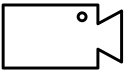
Created the ? Network (x)
Network ID is:
Configured SSIDs: 0-4

Q Search

Cancel

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Simple Workflow Demo



Variables



Variables to update*

Variable to update*

Output...Workflow Result

(x)

New value

Created the

Input...Network Name

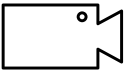
(x)

Network

Network ID is: |

Configured SSIDs: 0-4

Simple Workflow Demo



Browse Variables

Activities >

Env >

Global >

Workflow >

Meraki - Create Organization Network >
ATOMIC WORKFLOW

Check Network Creation Status and Configure SSIDs >
IF ELSE

Output - Network Notes
STRING

Output - Status Message
STRING

Output - Result
STRING

Output - Network Name
STRING

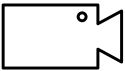
Output - Network ID ✓
STRING

Output - Network Time Zone

Cancel

Save

Simple Workflow Demo



Variables ▼

Variables to update*

Variable to update*

Output...Workflow Result {x}

New value

Created the

Input...Network Name {x}

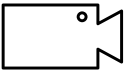
Network
Network ID is:

Meraki - Create Organization Network...Output - Network ID

Configured SSIDs: 0-4

+ Add

Simple Workflow Demo



Browse Variables

Activities >

Env >

Global >

Workflow >

Input >

Local >

Output >

Instance Id
STRING

Start time
DATE

Started By (ID) ⓘ
STRING

Started By (Type) ⓘ
STRING

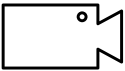
Workflow Result ⓘ
STRING

Workflow Result Code ⓘ ✓

Cancel

Save

Simple Workflow Demo



Variables

1

▼

Variables to update*

Variable to update*

Output...Workflow Result

{x}

New value

Created the

Input...Network Name

{x}

Network
Network ID is:

Meraki - Create Organization Network...Output - Network ID

Configured SSIDs: 0-4

Variable to update*

Output...Workflow Result Code

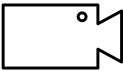
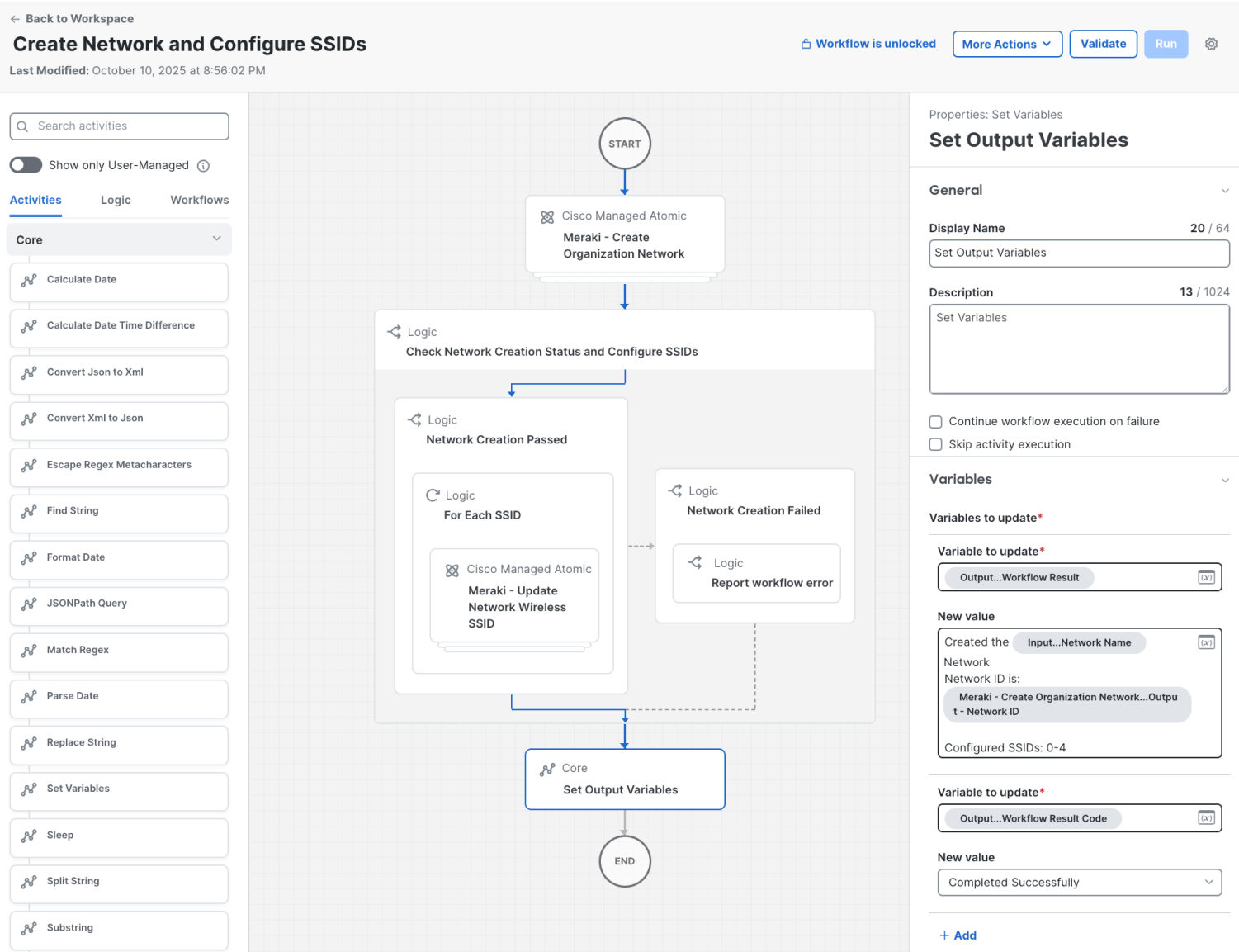
{x}

New value

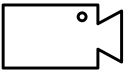
Select ^

Completed SuccessfullyCompleted UnsuccessfullyPartially CompletedStartedWorkflow Errored

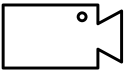
Simple Workflow Demo



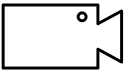
Simple Workflow Demo



Simple Workflow Demo



Simple Workflow Demo



Run Create Network and Configure SSIDs

Input Variables

Network Name*

Format		JSON ▾	
1	BRKOPS-1156		

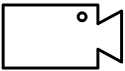
Org ID*

Format		JSON ▾	
1	615867249042917618		

Cancel

Run

Simple Workflow Demo



← Back to run monitoring

Create Network and Configure SSIDs Run RUNNING

Version 1.0.0

AUTO-REFRESH ☒

Modify

00

✕

START

Atomic
Meraki - Create Organization Network

Logic
Check Network Creation Status and Configure SSIDs

Logic
Network Creation Passed

Logic
For Each SSID

Atomic
Meraki - Update Network Wireless SSID

Logic
Network Creation Failed

Core
Set Output Variables

END

Workflow Properties

Create Network And Config...

General

Variables

Name	Type	Scope	Value	Required
Network Name	String	Input	BRKOPS-1156	True
Org ID	String	Input	615867249042917618	True
Network Product Types	Array	Local	[...]	False
SSID Array	Array	Local	[...]	False

Automation Rules

Target

Credentials

Output

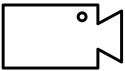
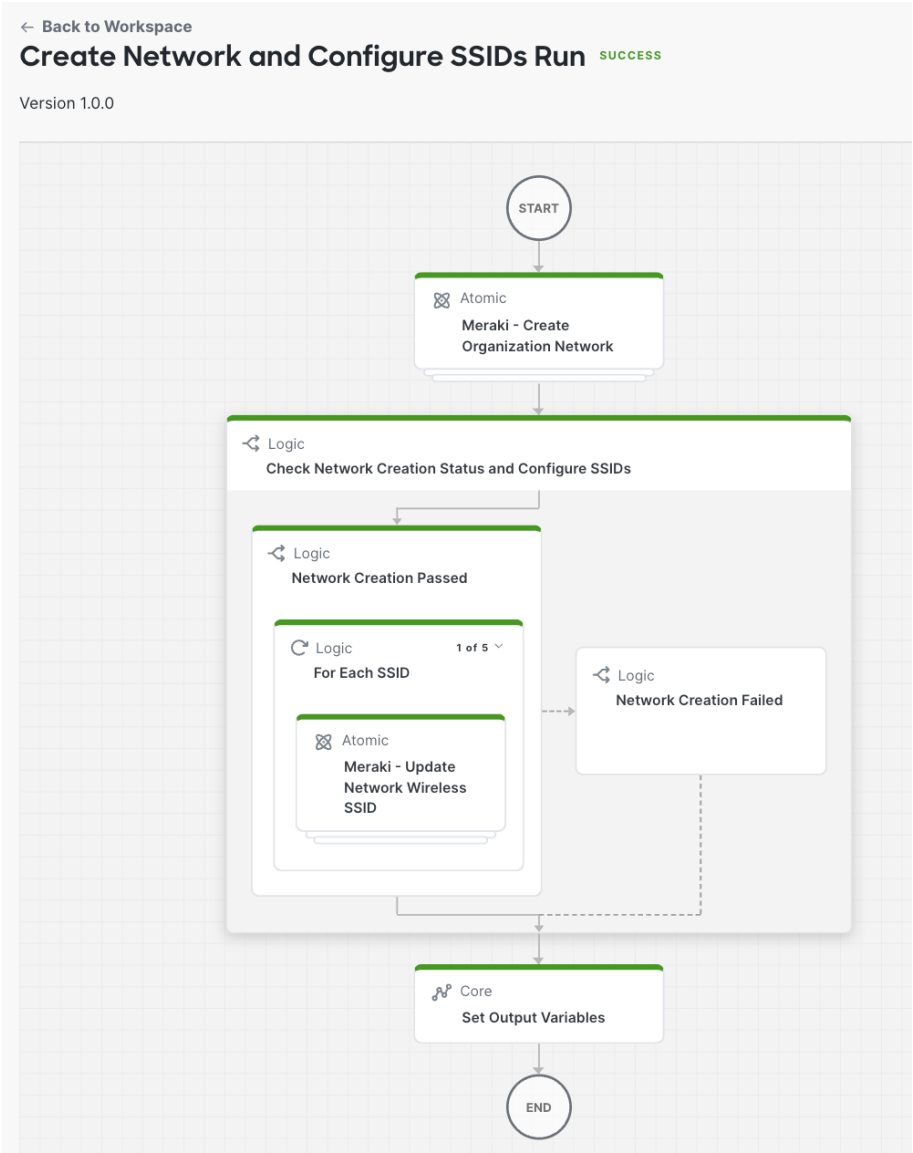
Instance Id
02QI5CCPHSIY40u20st0iW8dlUyGRvVxtz4

Start time
Fri Oct 10 2025 21:37:59 GMT-0400 (Eastern Daylight Time)

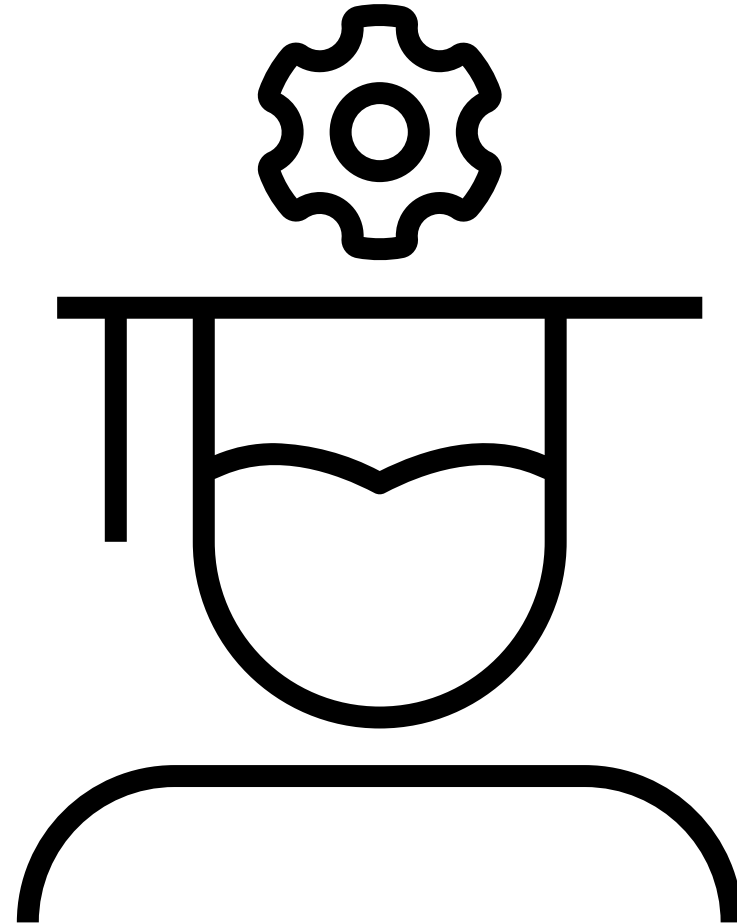
End time
No value



Simple Workflow Demo

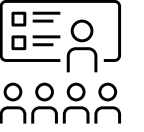


Advanced Activities - Low Code



JSONPath Query

Note: There are multiple implementations of JSONPath. Automation uses the Jayway implementation.



Properties: JSONPath Query

JSONPath Query

General >

JSON Query v

Source JSON to Query* ⓘ

Format JSON v ↗

1 Meraki - Get Organization Networks...Output - Result (x)

JSONPath queries*

+ Add

Links:

- [JSONPath Query documentation](#)
- [Video lesson](#)

JSONPath Query



JSONPath queries*

JSONPath Query* ⓘ

\$.number ⓘ

Property Name* ⓘ

SSID Number

Property Type* ⓘ

Integer

☐ Override with specified value if query doesn't return a result ⓘ

+ Add

Browse Variables

Q Search

ess
eeds >

End time
DATE

Start time
DATE

Succeeded
BOOLEAN

Error
OBJECT

JSONPath Query for
SSID settings
JSONPATHQUERY

Elapsed time (seconds)
DECIMAL

End time
DATE

Start time
DATE

Succeeded
BOOLEAN

Error
OBJECT

Jsonpath Queries
OBJECT

SSID
radiusProxyEnabled
BOOLEAN

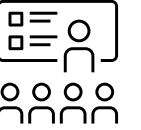
SISD
radiusTestingEnabled
BOOLEAN

SSID Name
STRING

SSID Number
INTEGER

SSID authMode
STRING

JSONPath Query



JSONPath queries*

JSONPath Query* ⓘ

`$[*].id`



Property Name* ⓘ

Network ID

Property Type* ⓘ

String



Override with specified value if query doesn't return a result ⓘ

Default value ⓘ

Default value

Provide fallback data if the query returns nothing. Useful for downstream logic that expects consistent structure.

Read Table from JSON

Properties: Read Table From JSON

Read Table From JSON

General

Read Table

3

JSON Path*

{x}

☐ Persist Table

☐ Populate Columns from JSON

Columns to Read*

+ Add

Columns To Read is required

Source JSON*

Format

JSON

1

{x}

Read Table

JSON Path*

{x}

☒ Persist Table

☐ Populate Columns from JSON

Columns to Read*

Name*

portId

Type*

String

+ Add

Source JSON*

Format

JSON

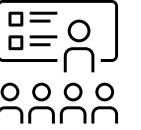
1

Get Source Switch Ports...Output - Result

{x}



Important Notes on Tables



☒ Persist Table

☐ Populate Columns from JSON

Persist Table. If you want to make changes to a table later, it must be made persistent. Otherwise, you will only be able to read from the table.

Recommend that you manually add columns individually in the **Columns to Read** section of the Table activity properties.

If you populate column headers from their source data the columns will only be populated at run time and you cannot use the column headers when creating a For Each loop.

Links:

- [Select from Table documentation](#)
- [Video lesson](#)

Table Activities



Activities

Logic

Workflows

Table

Add Row to Table

Delete from Table

Read Table from JSON

Read Table from Text

Read Table from XML

Select from Table

Update Row in Table

Properties: Select From Table

Select Target Port ID From S...

Select

Input Table*

Source Read Table from JSON...Output

Where Clause ⓘ

portId = 'Input...Input - Source Port ID'

Result Columns

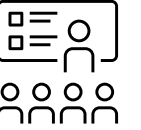
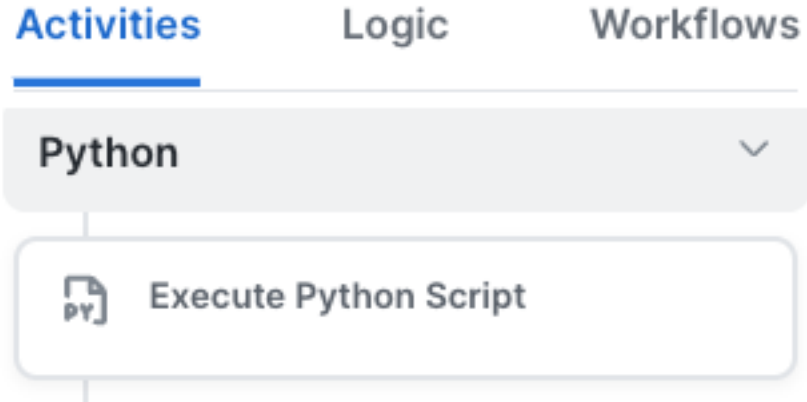
All

☒ Persist Table

NOTE:
Must check
☒ Persist Table
to store the
output of
this activity
as a variable

Table documentation

Execute Python Script



Important Notes:

- Available Python modules
- Max payload of 4 MB
- Video lesson

Properties: Execute Python Script

Execute Python Script

General >

Python Query 1 ▾

Script arguments
[+ Add](#)

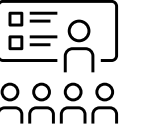
Script to execute on target:*

Python ▾ ↗

1 [X]

Script Output Variables
[+ Add](#)

Map variables into Python Script



Python Query

Script arguments

- 1 Input...Input - first number
- 2 Input...Input - second number

+ Add

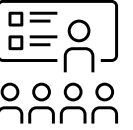
Script to execute on target:*

```
1  # import statements
2  import sys
3  # Map a varibale from the Script arguments assignments
4  # in the Execute Python Script activity
5  first_number = int(sys.argv[1])
6  second_number = int(sys.argv[2])
7
8  # Use the Workflows variable mapper to map variables
9  third_number = Input...Input - third number
10
11 def calculate_sum(a, b, c):
12     """
13     Returns the sum of three numbers.
14     """
15     return a + b + c
16
17 def calculate_average(a, b, c):
```

Python ▾



Map variables from Python Script



```
29 average = calculate_average(first_number, second_number, third_number)
30 product = calculate_product(first_number, second_number, third_number)
31 total_sum = calculate_sum(first_number, second_number, third_number)
```

Script Output Variables

Script Variable*
average

Property Name*
average

Property Type* ⓘ
Integer

Script Variable*
product

Property Name*
product

Property Type* ⓘ
Integer

Script Variable*
total_sum

Property Name*
total_sum

Property Type* ⓘ
Integer

Map variables from Python Script



29 average = calculate_average(first_number, second_number, third_number)

30 product = calculate_product(first_number, second_number, third_number)

31 total_sum = calculate_sum(first_number, second_number, third_number)

Script Output Variables

Script Variable*

average

Property Name*

average

Property Type* ⓘ

Integer

Script Variable*

product

Property Name*

product

Property Type* ⓘ

Integer

Script Variable*

total_sum

Property Name*

total_sum

Property Type* ⓘ

Integer

Browse Variables

Q Search

>

Execute Python Script with Script Arguments

SCRIPT

Elapsed time (seconds)

DECIMAL

End time

DATE

Response body

STRING

Script Queries

OBJECT

Start time

DATE

Succeeded

average

INTEGER

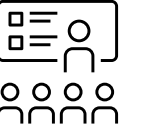
product

INTEGER

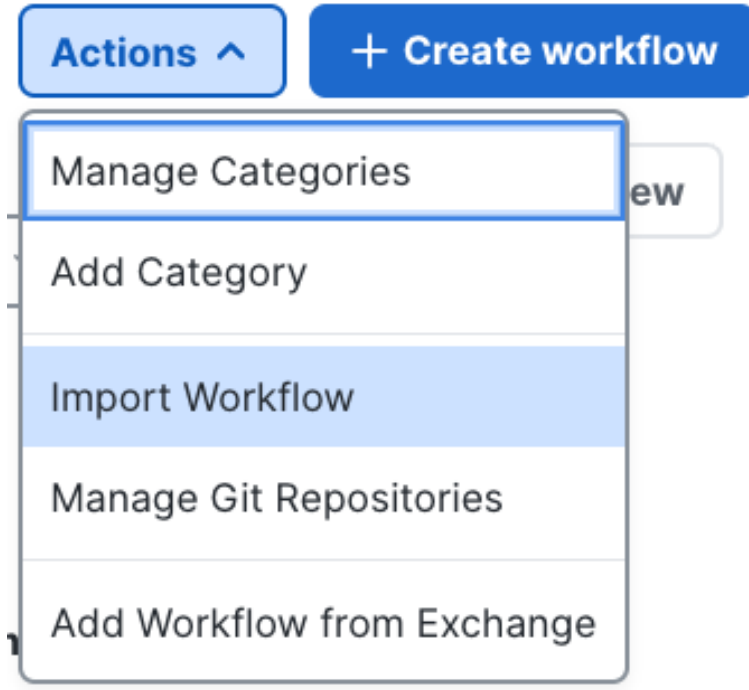
total_sum

INTEGER

Import/Export

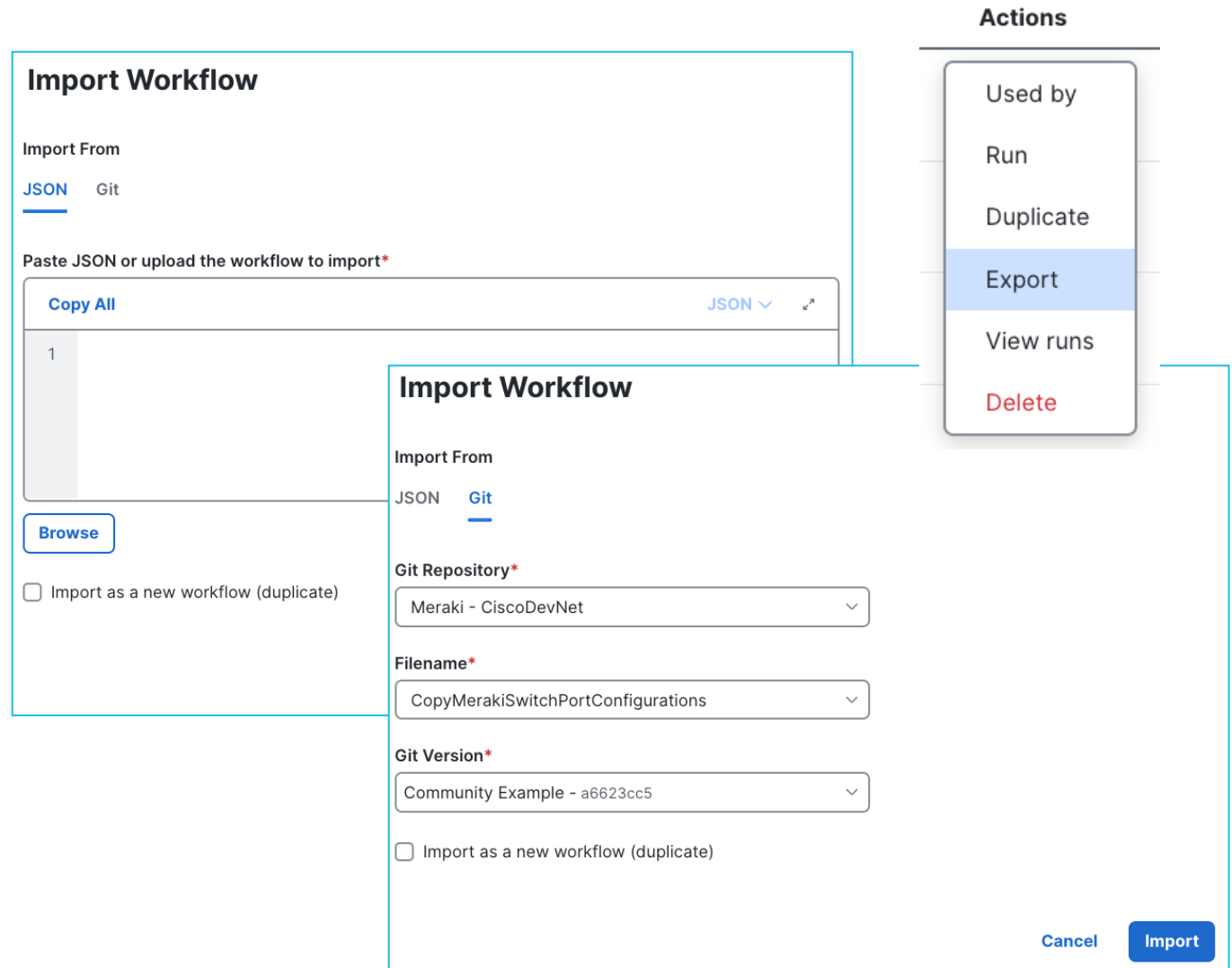


Workspace Actions Menu

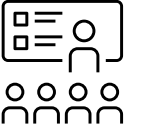


Links:

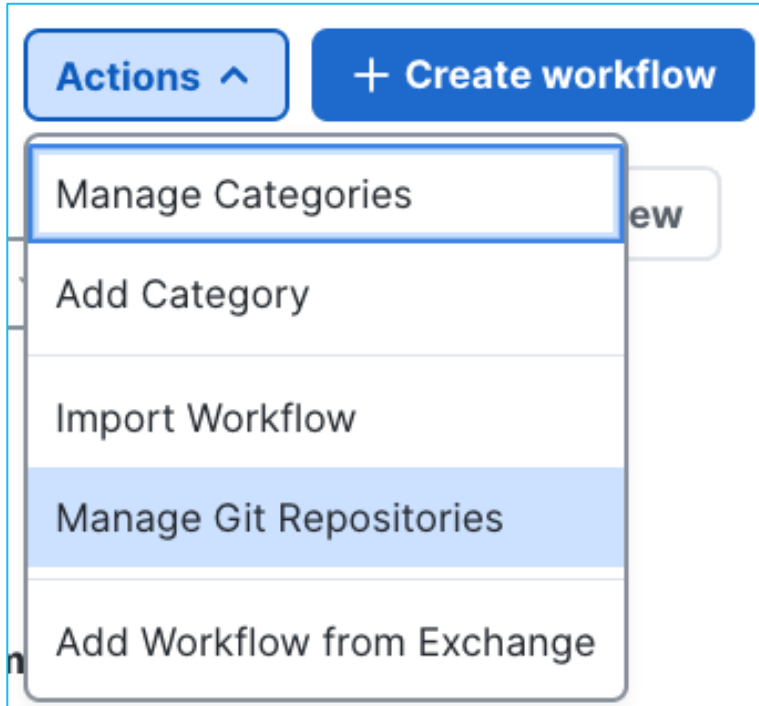
- [Import/Export documentation](#)
- [Video lesson](#)



Git Repos



Workspace Actions Menu



Links:

- [GitHub Repo documentation](#)
- [Video lesson](#)

← Back to Workspace

Git Repositories

View, add, modify, and delete the Git repositories that house your workflows and atomic actions.

Search

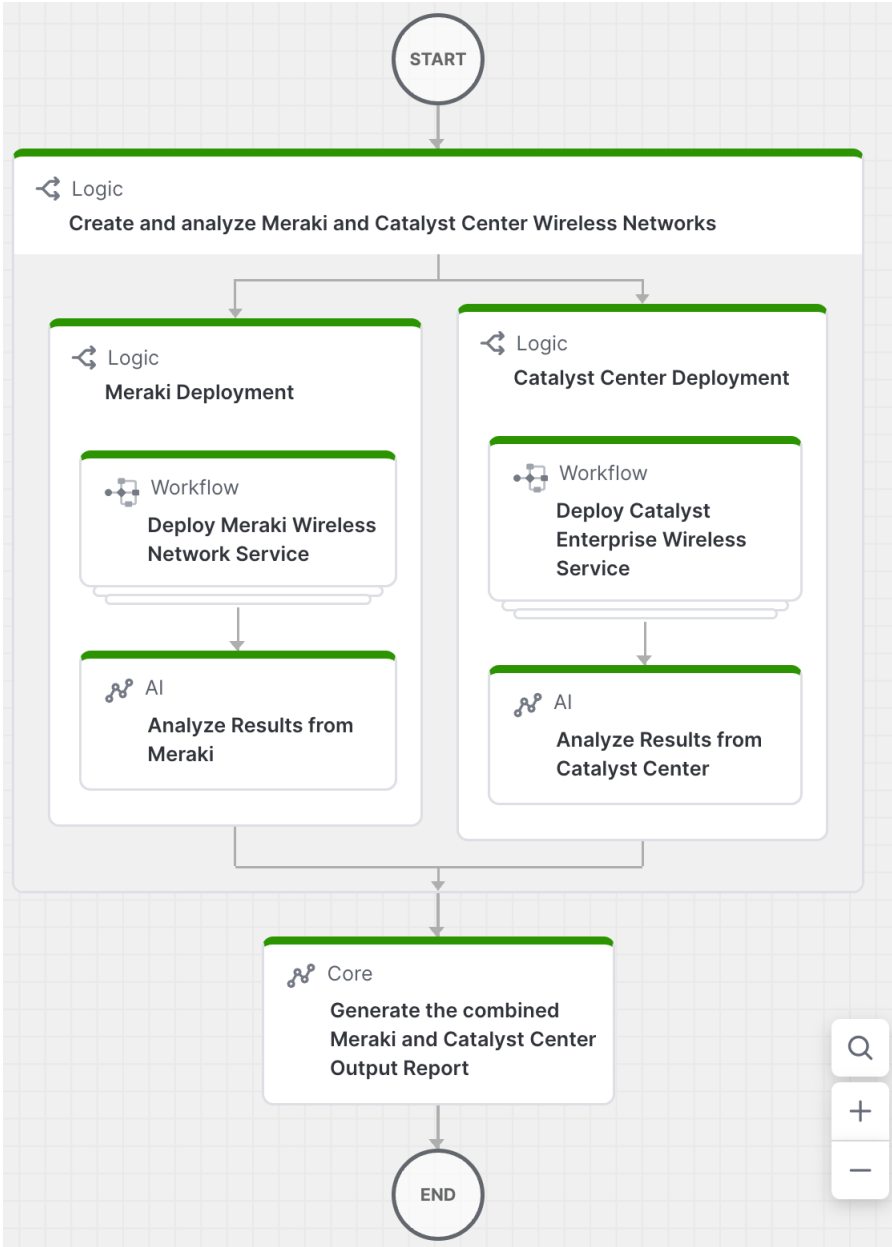
+ New git repository

Display name	Type	Owner	Last modified	Actions
Cross Domain - CiscoDevNet	GitHub	Ed Novak	8/19/2025, 5:50:14 PM	...
Catalyst Center - CiscoDevNet	GitHub	Ed Novak	8/19/2025, 5:49:16 PM	...
Learning Series - CiscoDevNet	GitHub	Ed Novak	8/19/2025, 5:38:27 PM	...
Meraki - CiscoDevNet	GitHub	Ed Novak	8/19/2025, 4:32:41 PM	...

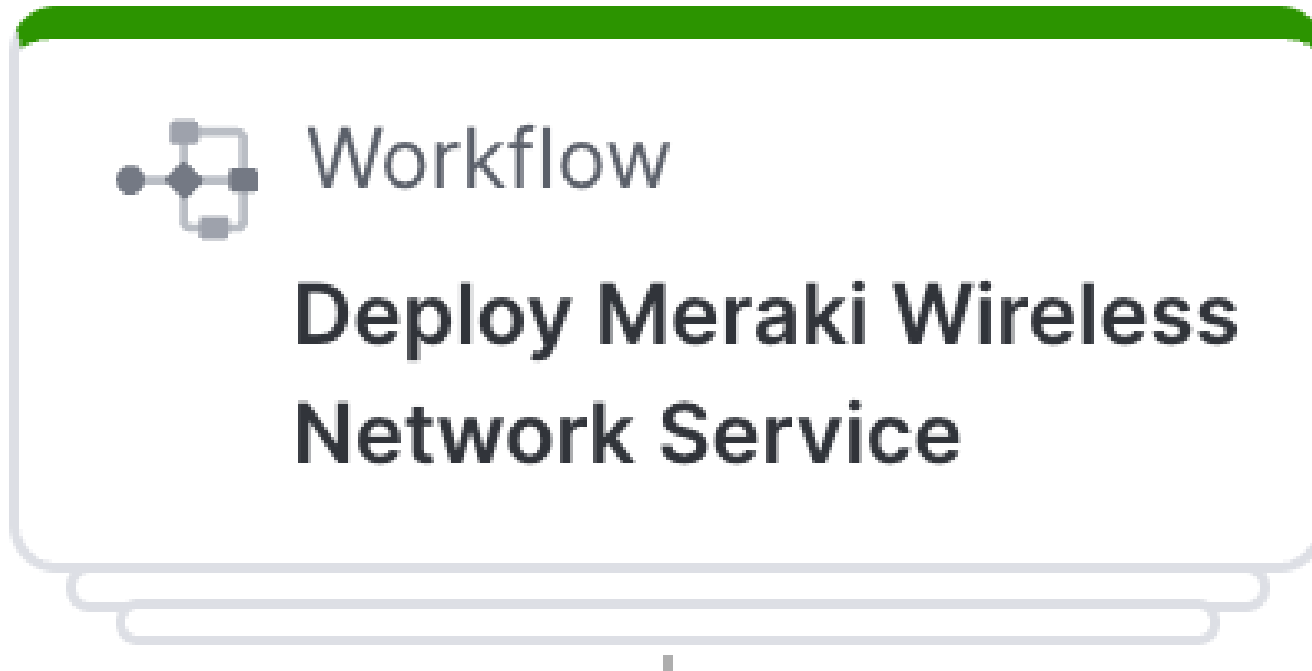
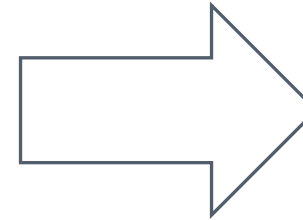
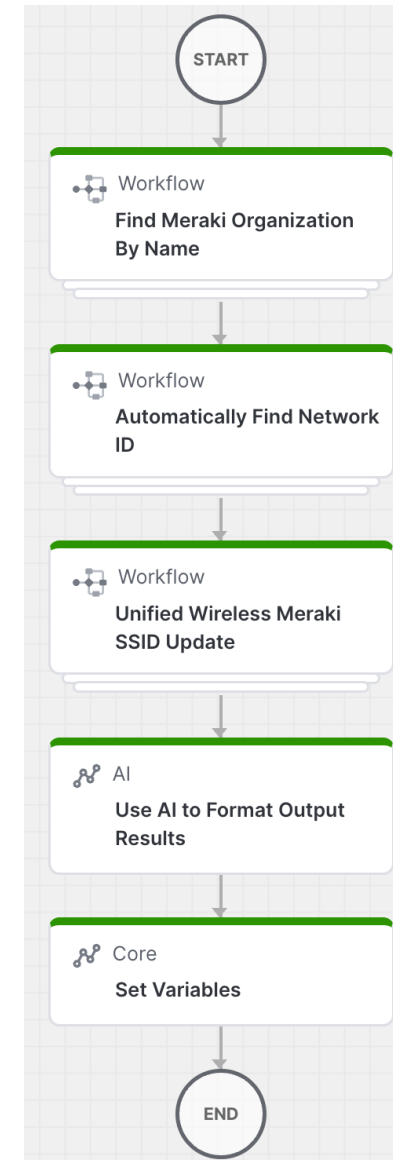
Rows per page 10 1-4 of 4 < 1 >

Course Options

The Workflows



Deploy Meraki Wireless Network Service



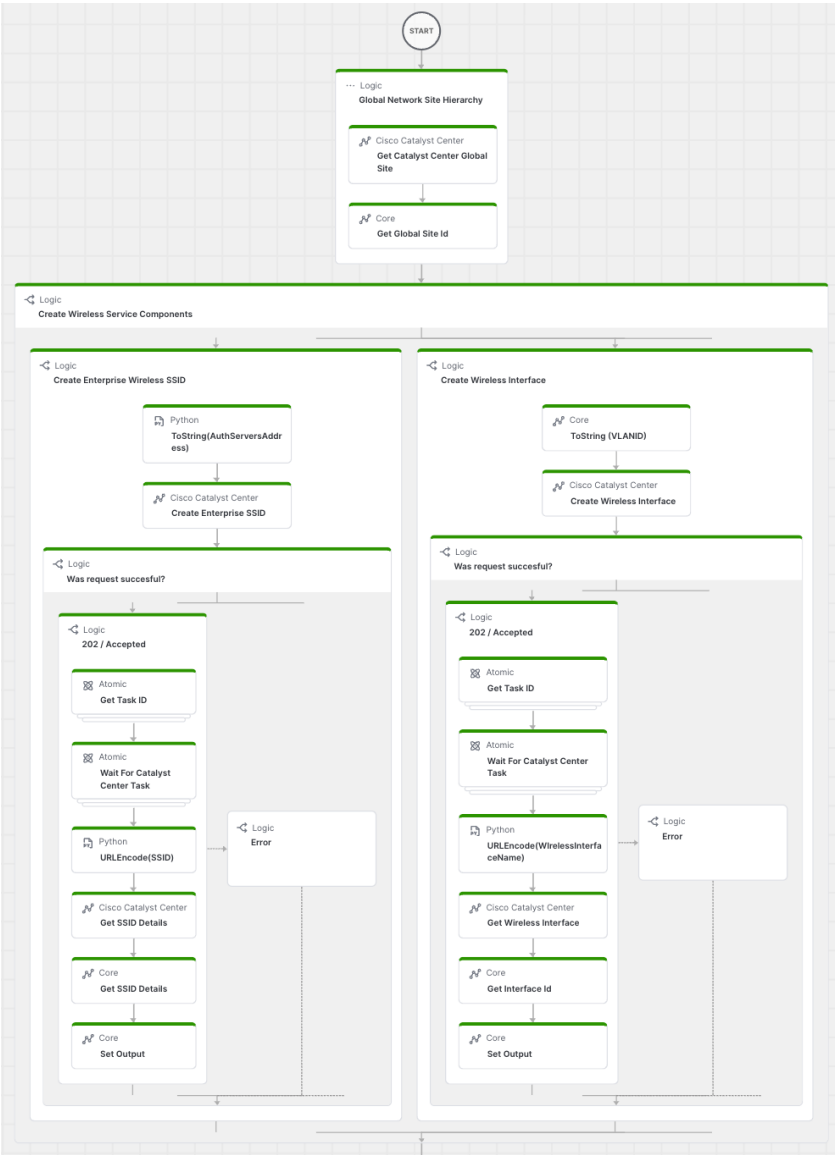
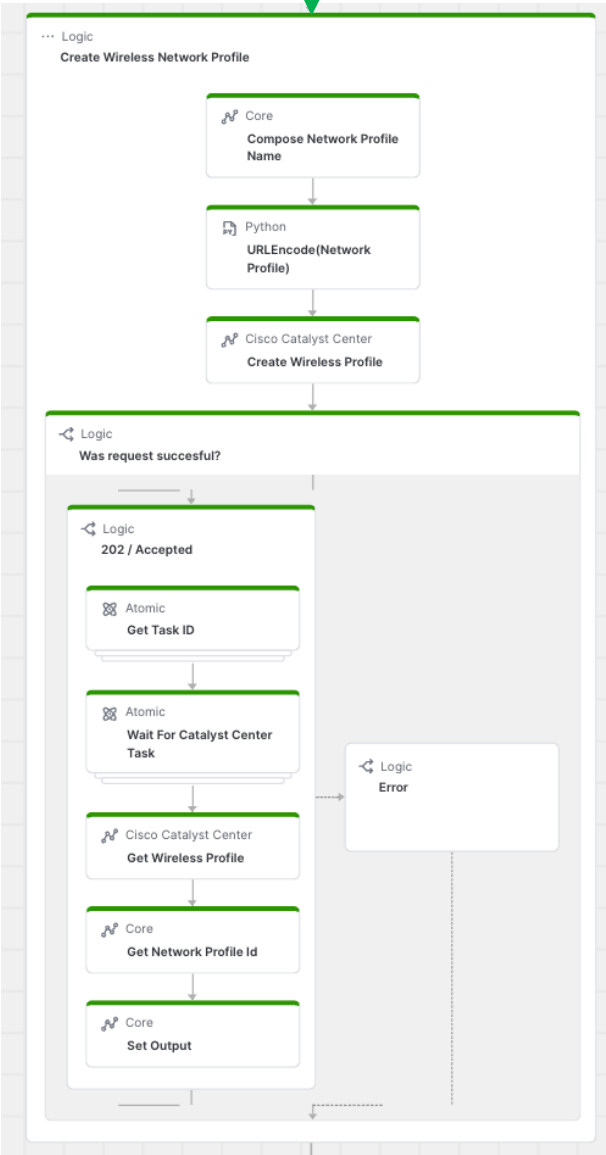
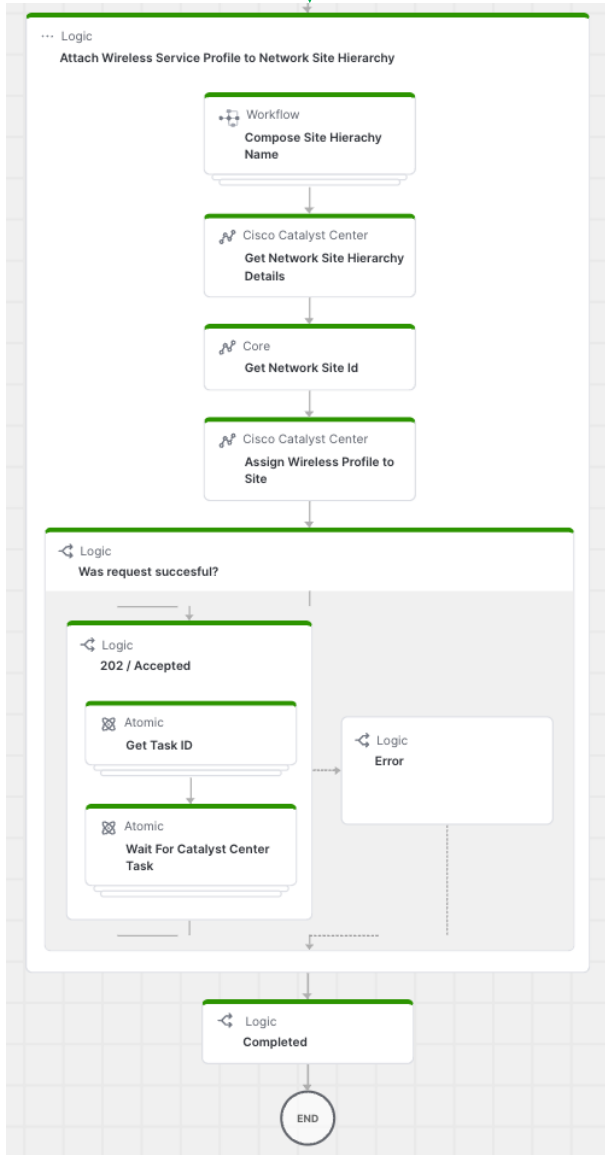
Deploy Catalyst Enterprise Wireless Service



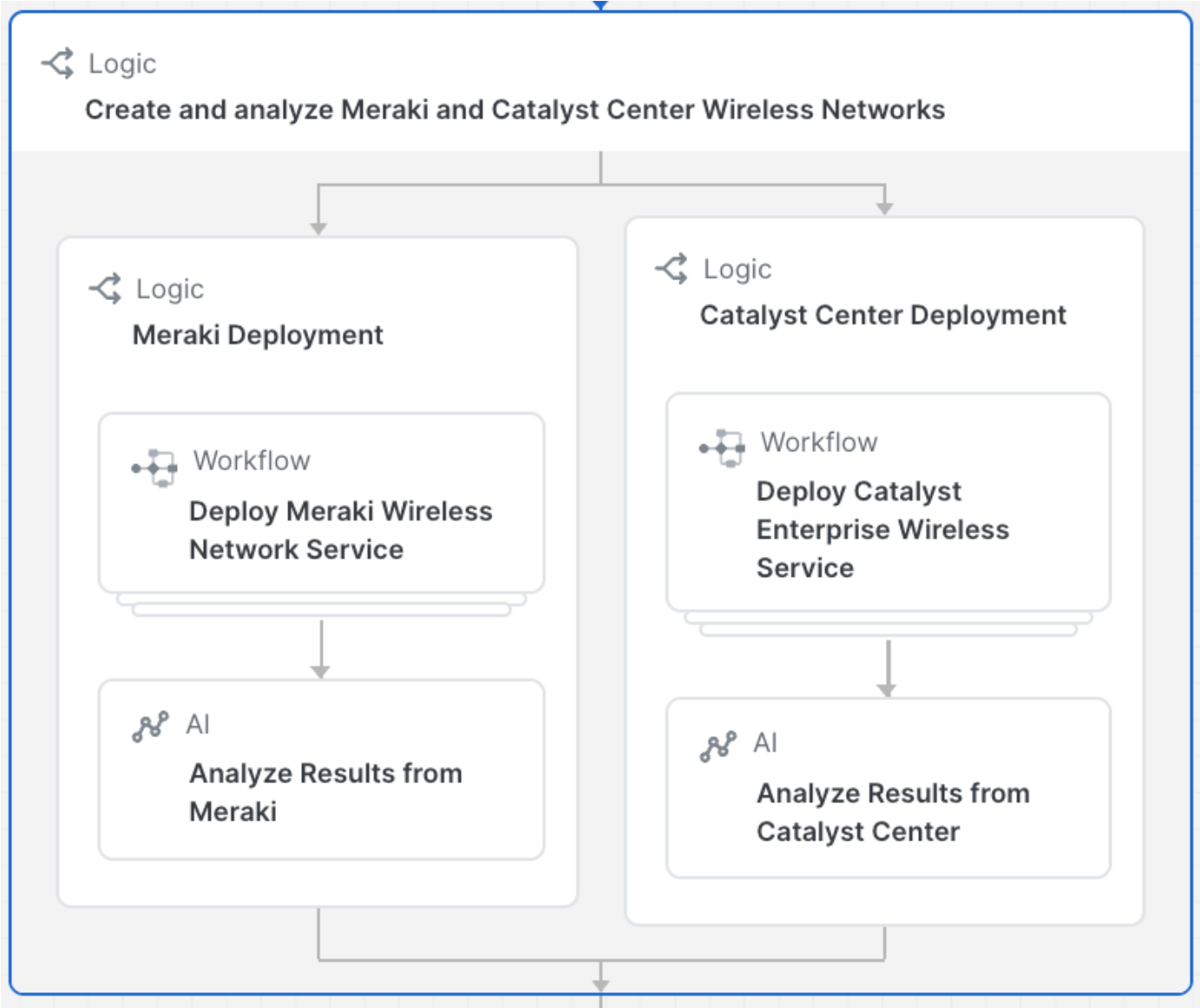
Workflow

**Deploy Catalyst
Enterprise Wireless
Service**

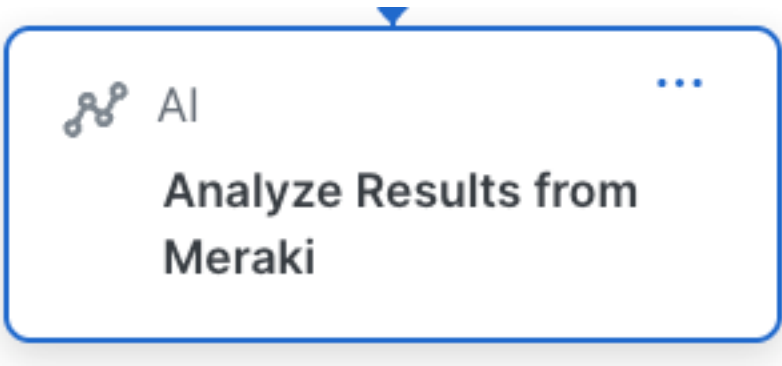
Deploy Catalyst Enterprise Wireless Service



Analyze Results with AI



Analyze Results with AI



Request

Chat Messages*

Content* ⓘ

You are a Data Transformation tool. You take in raw JSON structures or other similar and convert them to more readable text. {x}

Role* ⓘ

user {x}

+ Add

System Prompt* ⓘ

Please take in the raw input from: {x}

Deploy Meraki Wireless Network Service...Output - Result

and convert this into a more human readable text. Do not include any API Tokens or Clear Text Passwords.

Analyze Results with AI



Analyze Results from
Catalyst Center

Request

Chat Messages*

Content* ⓘ

You are a Data Transformation tool. You taking in Raw Output Variables from a Function and placing them in a Readable format.

Role* ⓘ

user

+ Add

System Prompt* ⓘ

Please take in the response Values from:

- Deploy Catalyst Enterprise Wireless Serv...WLAN Profile Name
- Deploy Catalyst Enterprise Wireless Serv...VLAN Interface ID
- Deploy Catalyst Enterprise Wireless Serv...Network Profile Id
- Deploy Catalyst Enterprise Wireless Serv...Network Profile
- Deploy Catalyst Enterprise Wireless Serv...SSID Unique ID

and convert this into a more human readable text. Do not include any API Tokens or Clear Text Passwords.

Set the Output Variables

 Core

Generate the combined Meraki and Catalyst Center Output Report

Properties: Set Variables

Generate The Combined Meraki And Catalyst Center Output R...

General

Variables

Variables to update*

Variable to update*

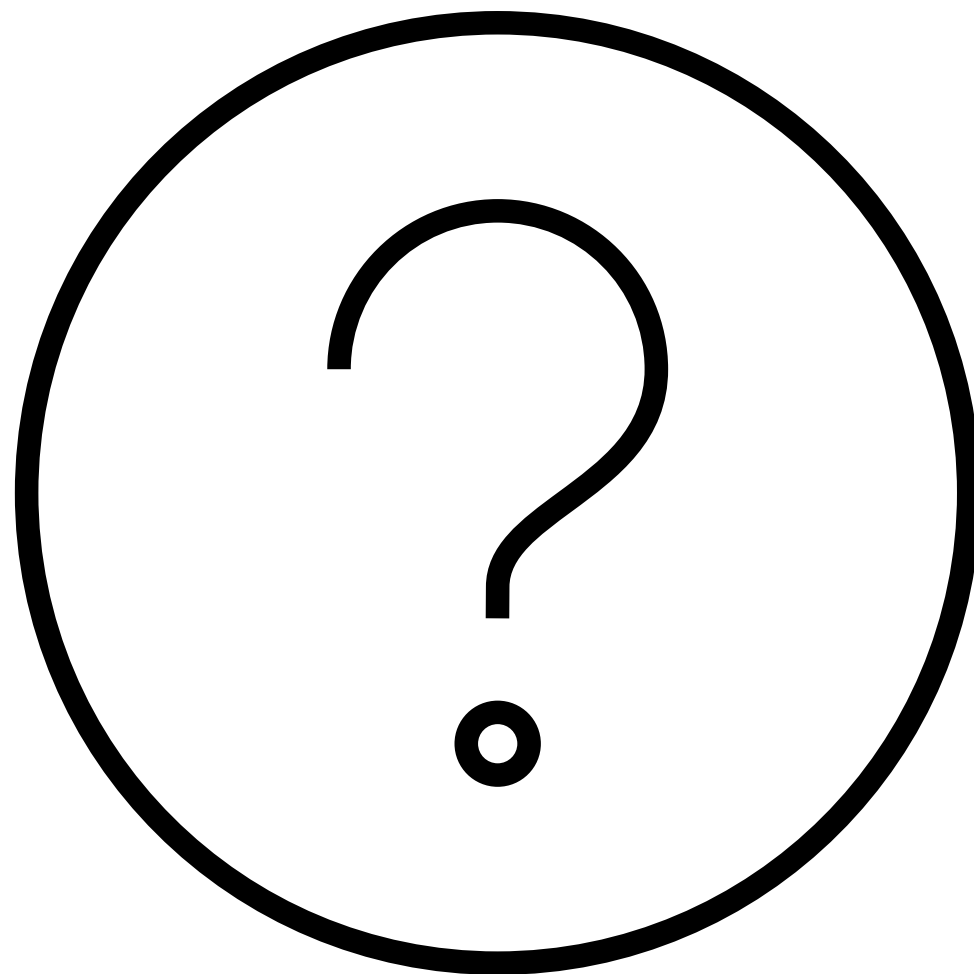
Output...Output - Result

New value

Meraki Wireless Network:
Analyze Results from Meraki...Content

Catalyst Center Wireless Network
Analyze Results from Catalyst Center...Content

FAQs



Frequently Asked Questions

Is Agentic
Workflows only
for Meraki?

How do I connect
to On-Prem
controllers or
devices?

Does Workflows
count against the
Meraki API Rate
Limits?

How do I limit
permissions on a
workflow?

Aid Stations – Help with Workflows



Aid Stations

Help with Workflows

World of Solutions Demo



CPA10 – AgenticOps for Networking

Learn about Cisco Workflows, the free, low/no-code cross-domain automation solution that is now directly integrated into the Cisco Networking Cloud Control dashboard. Easily consume, create, and manage automations that reduce OPEX, eliminate manual errors, and simplify operations.

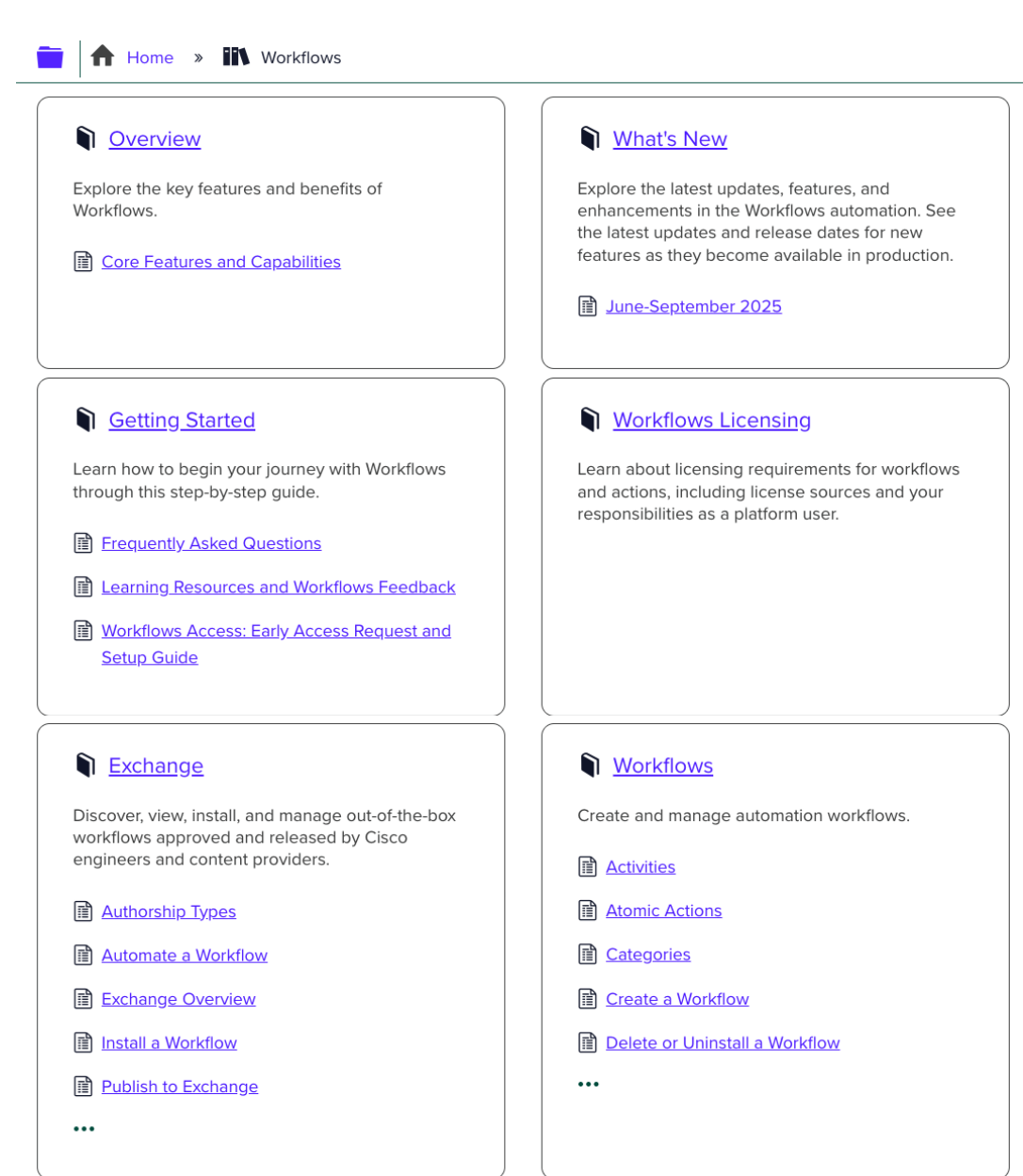
Workflows Community



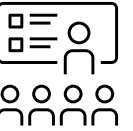
<http://cs.co/WorkflowsCommunity>

Ask questions and keep up to date on all the latest Workflows announcements

<https://documentation.meraki.com/Workflows>



Best Practices



https://documentation.meraki.com/Workflows/Workflows/Workflow_Best_Practices

 [Home](#) »  [Workflows](#) »  [Workflows](#) »  Workflow Best Practices

Workflow Best Practices

Last updated: Jun 21, 2025 

[+ TABLE OF CONTENTS](#)

Cisco-developed content for Exchange follows strict standards for assessing both technical capability and use case quality. In addition to running successfully, a workflow or atomic action must: be relatively easy to understand, have consistent and meaningful error handling, and accomplish a well-defined outcome.

One of the many benefits of Automation is that anyone can customize a workflow to accommodate their specific needs. Accordingly, workflows should be written with flexibility and ease of use by others in mind. For example, you can use variables wherever feasible to allow for customization. Error handling is one of the most important aspects of designing a workflow. Others using your workflow may run into issues and should receive clear error messages to guide them to the problem. In addition, if a workflow fails to accomplish its objective, it should fail so that it is obvious that the intended action was not completed.

Workflows should have a clear, specific objective and accomplish that objective within well-defined requirements. The following best practices should be followed when building a workflow.

Overall

When creating a workflow, you can start with a blank workflow or choose the type of workflow to gain some configuration assistance according to its intent (incident response, pivot menu, automation rule) and expedite the build process. For more information, see the [Workflow Intent](#) Help topic.

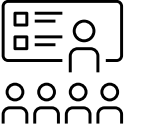
Name the workflow something meaningful, and avoid duplicating names.

Provide a detailed description. For instance, include the purpose of the workflow and how it should be used. Include details such as targets used and what steps should be performed.

Workflows should have a clear purpose and a user should be able to walk through a workflow and understand what it's doing.

Make sure you perform proper error checking, for instance with JSON parsing and HTTP requests. And be mindful of how you handle the errors:

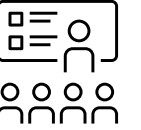
Important Notes and Limits



https://documentation.meraki.com/Workflows/Workflows#Important_Notes_and_Limits

- Design limits:
 - Maximum number of workflows: 500
 - Maximum number of atomics: 500
 - Maximum number of **workflow variables**: 100
 - Maximum number of custom variable types (array, object, and table) allowed is 200 total per organization.
 - Maximum size of a Large String variable is 10MB.
 - Maximum size of a String variable is 1MB.
 - Maximum size of a Table variable is 1MB.
 - Maximum number of **workflow actions** (all kinds): 200
 - Maximum number of **sub-workflow** activities per workflow: 30
 - Maximum number of **atomic** activities per workflow: 30
 - Maximum number of **For Each** logic activities per workflow: 20
 - Maximum number of Parallel Block logic activities per workflow: 10
 - Maximum number of **While Loop** logic activities per workflow: 20
 - Maximum **depth of nested loop** blocks per workflow: 3
 - Maximum number of workflows that you can have published in Exchange: 100
 - If a limit is reached, you receive a banner, toast, or in-page footer notifying you of the specifics.

Important Notes and Limits



https://documentation.meraki.com/Workflows/Workflows#Important_Notes_and_Limits

- Run time limits:
 - Maximum total loop runs per workflow: 50,000 iterations (includes loop counts from all logic actions in a workflow)
 - Maximum number of **iterations a For Each or While Loop can run: 500**
 - Maximum workflow run time: **30 minutes**
 - If a limit is reached, the workflow fails with the run status of workflow_timeout.

Race Series - Live Demos of Workflows



Cut Off Time



Complete your session evaluations



Complete a minimum of 4 session surveys and the Overall Event Survey to claim a Cisco Live T-Shirt.



Earn up to 800 points by completing all surveys and climb the Cisco Live Challenge leaderboard.



Level up and earn exclusive prizes!



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Attend the interactive education with Capture the Flag, and Walk-in Labs



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

Contact me at: enovak@cisco.com

Thank you

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