CISCO Connect

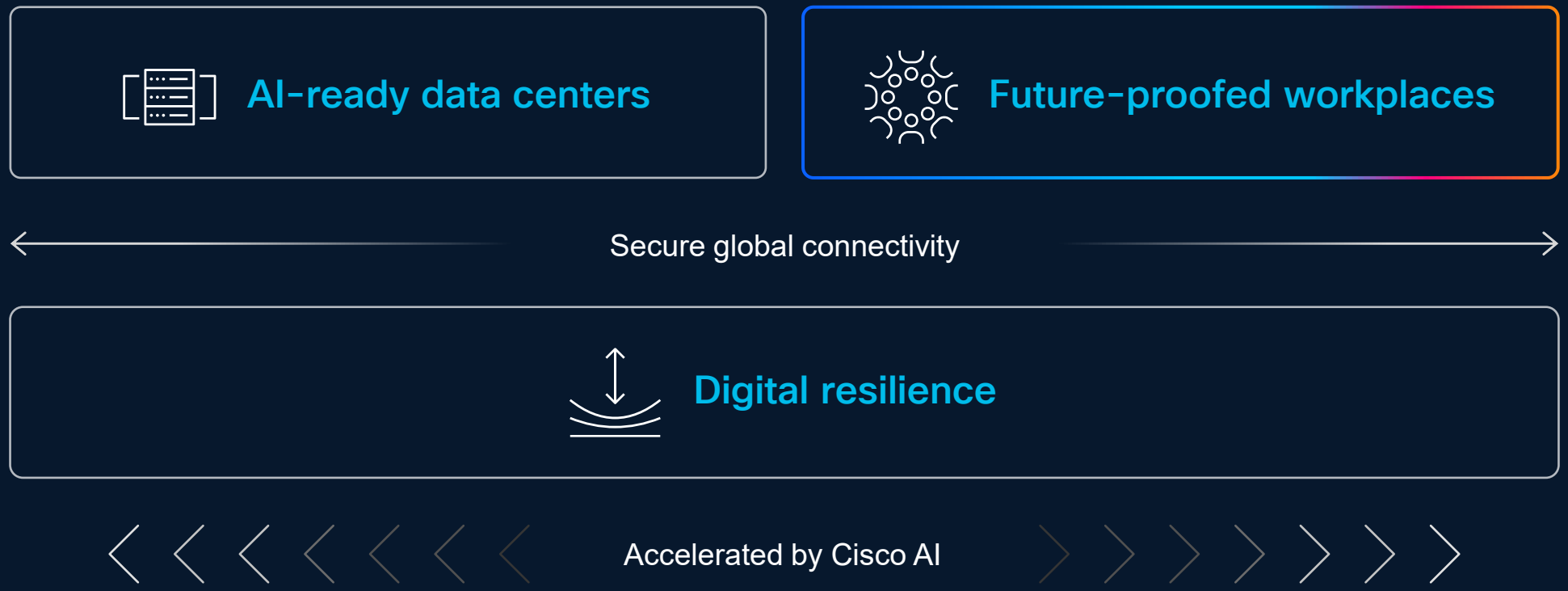
Modernize Your Branch Network With Cisco Secure Unified Branch



Osvaldo Salazar Tovar
Solutions Engineer, Cisco

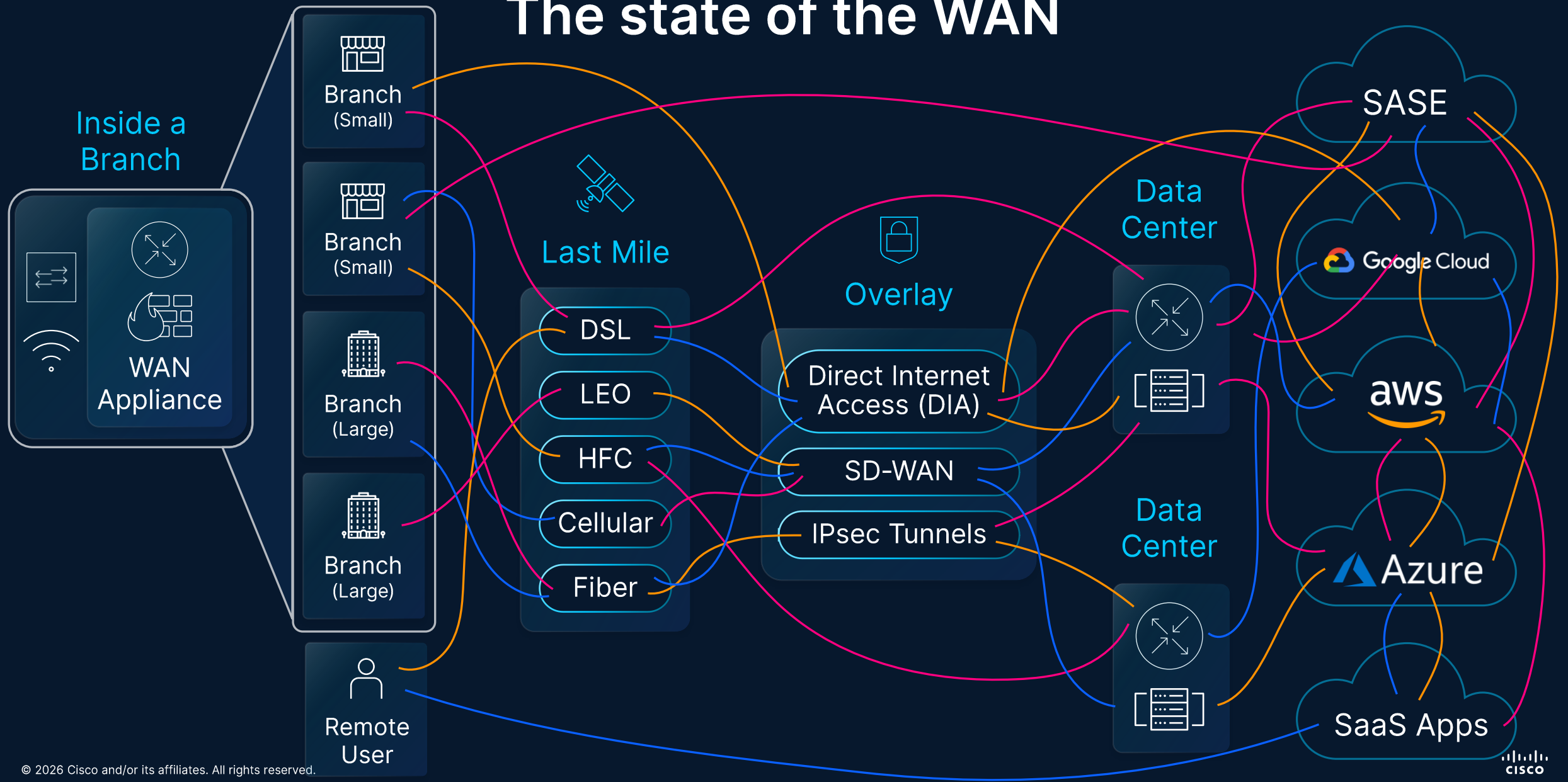
Drew Kimmelman, CISSP
Solutions Engineer, Cisco

Cisco powers how people and technology work together across the physical and digital worlds



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The state of the WAN



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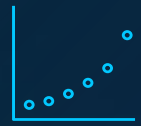
Challenges in the branch



Delivering amazing CX at the branch



Securing the branch, users and applications



Scaling branch operations with confidence

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These challenges requires a new branch architecture

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Our approach: Architecture for the AI-ready secure network



Simplified operations, powered by AgenticOps



Security fused into the network

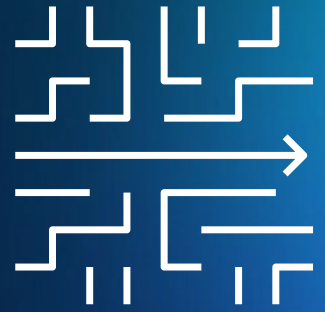


Scalable devices ready for AI

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Simplified operations powered by AgenticOps



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Cisco Cloud Control

The power of one

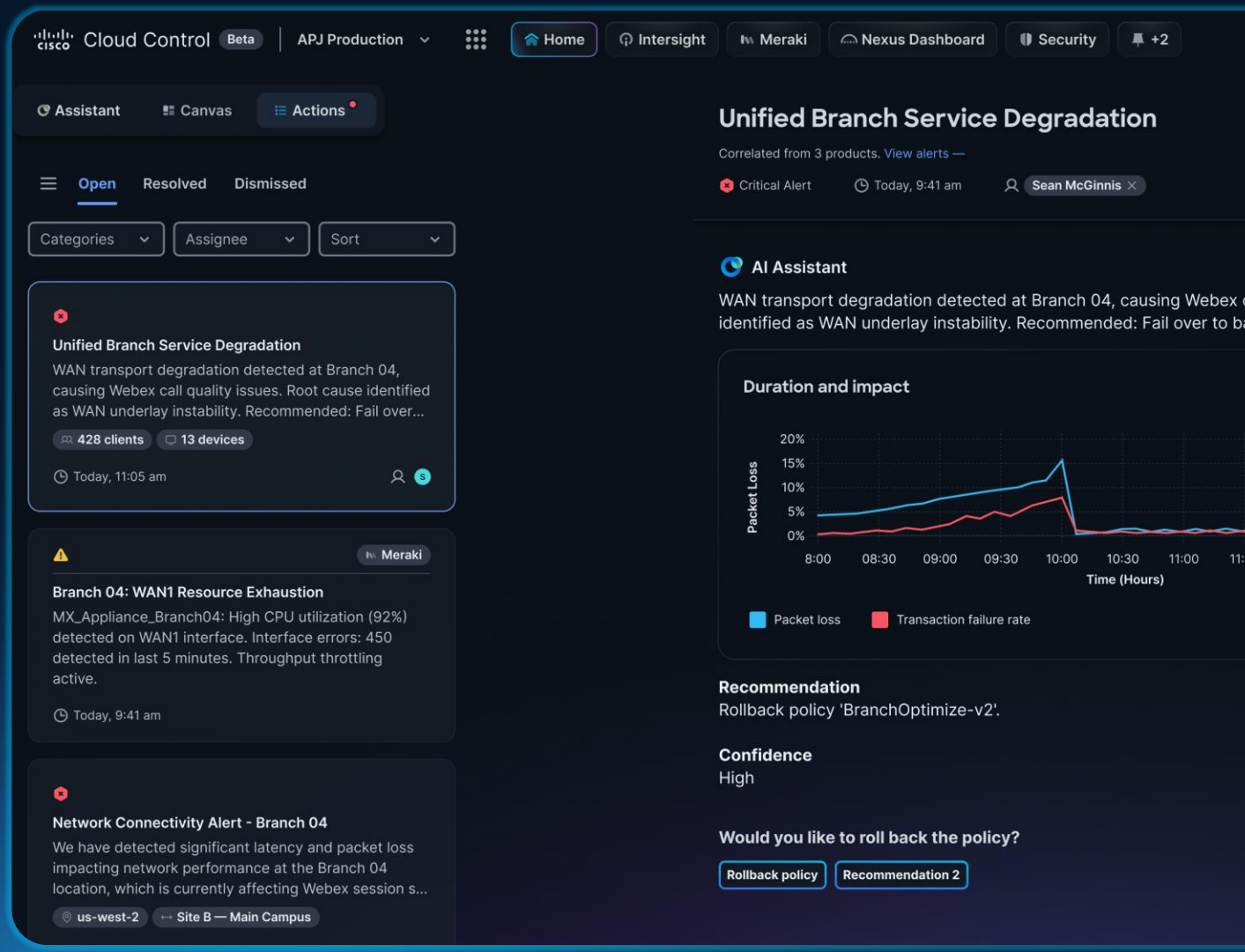
One login
Sign in once. See everything.

One inventory and topology
Every asset. See how it all connects, in real time.

One view for alerts
Actions correlates alerts across every product.

One assistant
Quick answers and tasks with AI Assistant.

One agentic workspace
Investigate, execute and resolve with AI Canvas.



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Unified Branch

Network deployed at scale to branch offices

Wi-Fi | Switching | Secure Routing

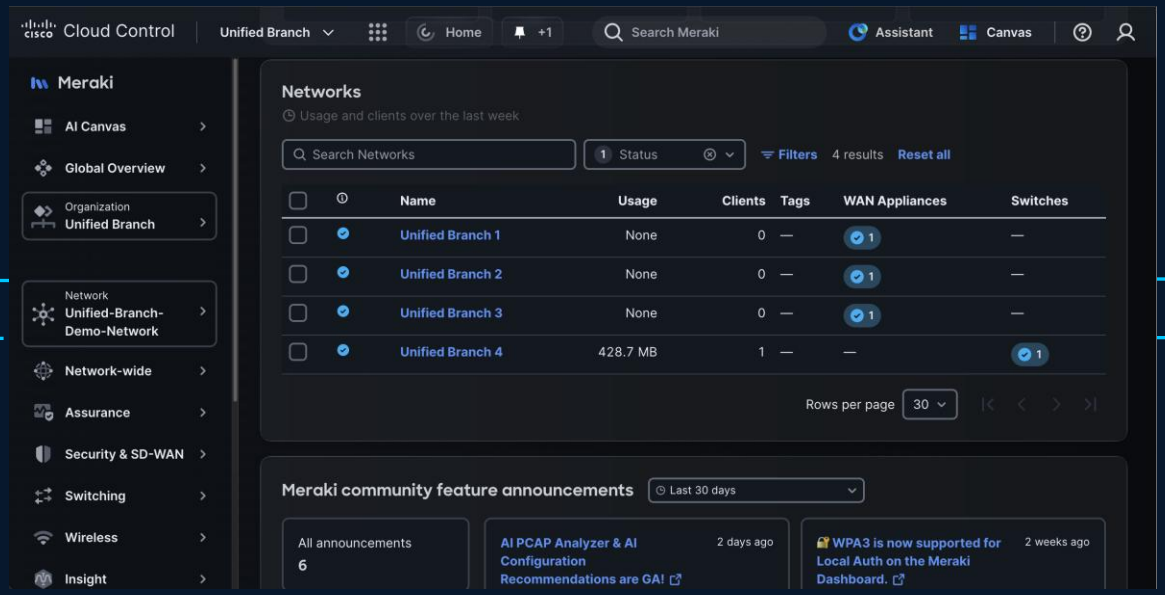
Deploy with

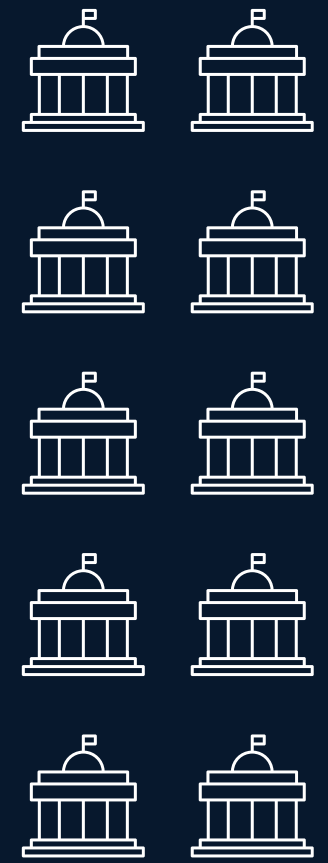
Workflows with cisco AI Assistant

or

Branch as Code using IaC principles with HashiCorp Terraform

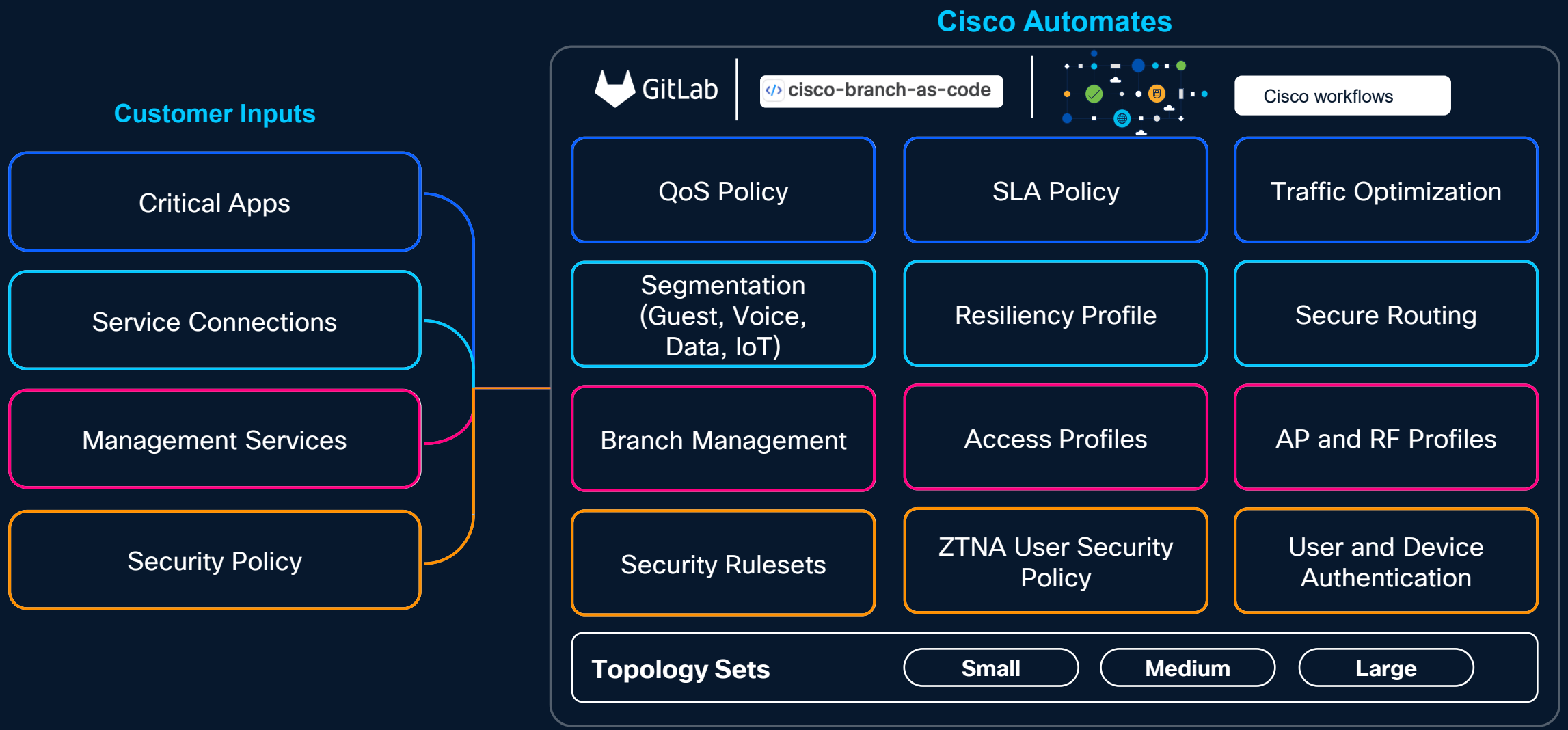
Dashboard in Cloud Control





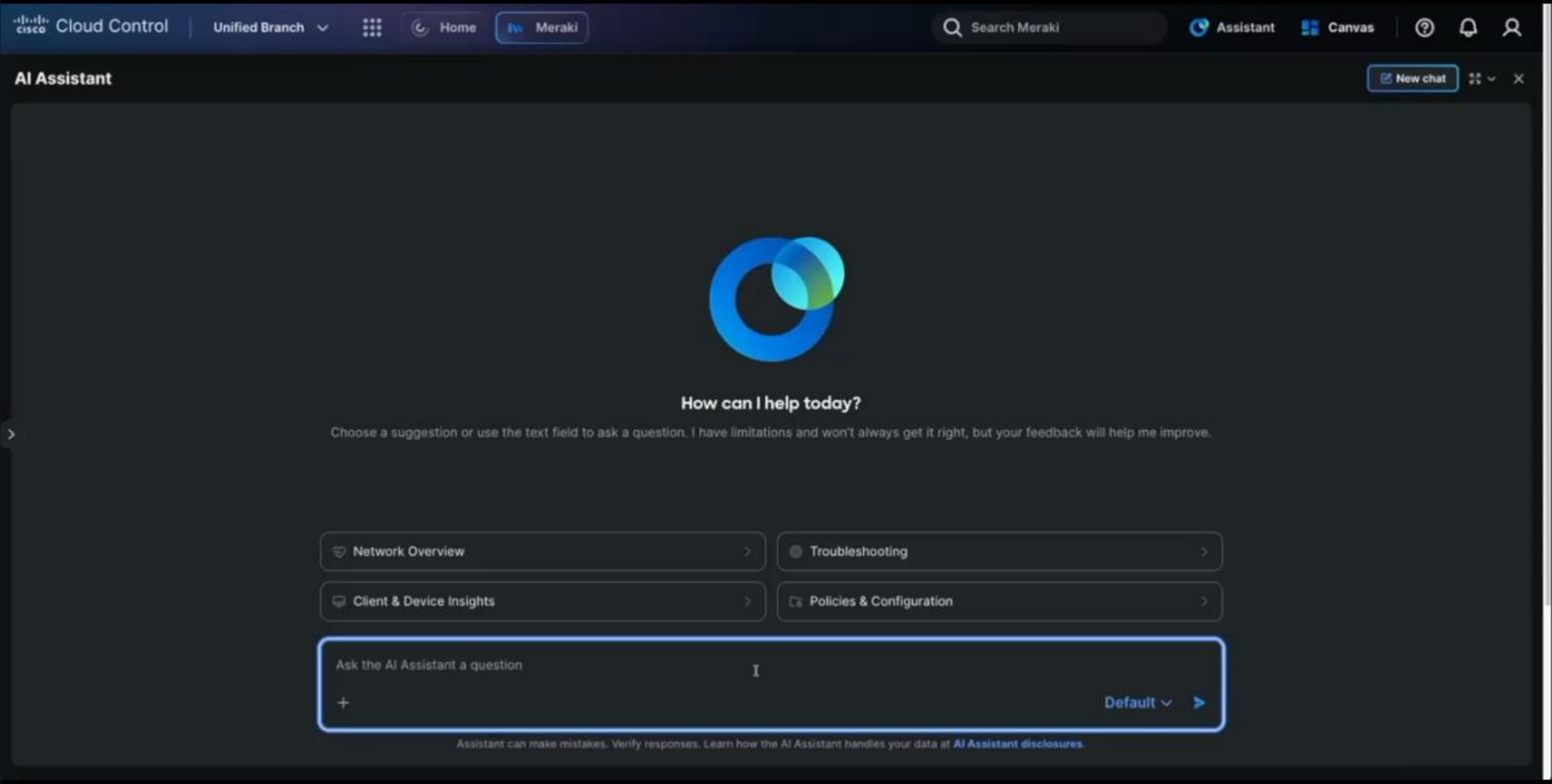
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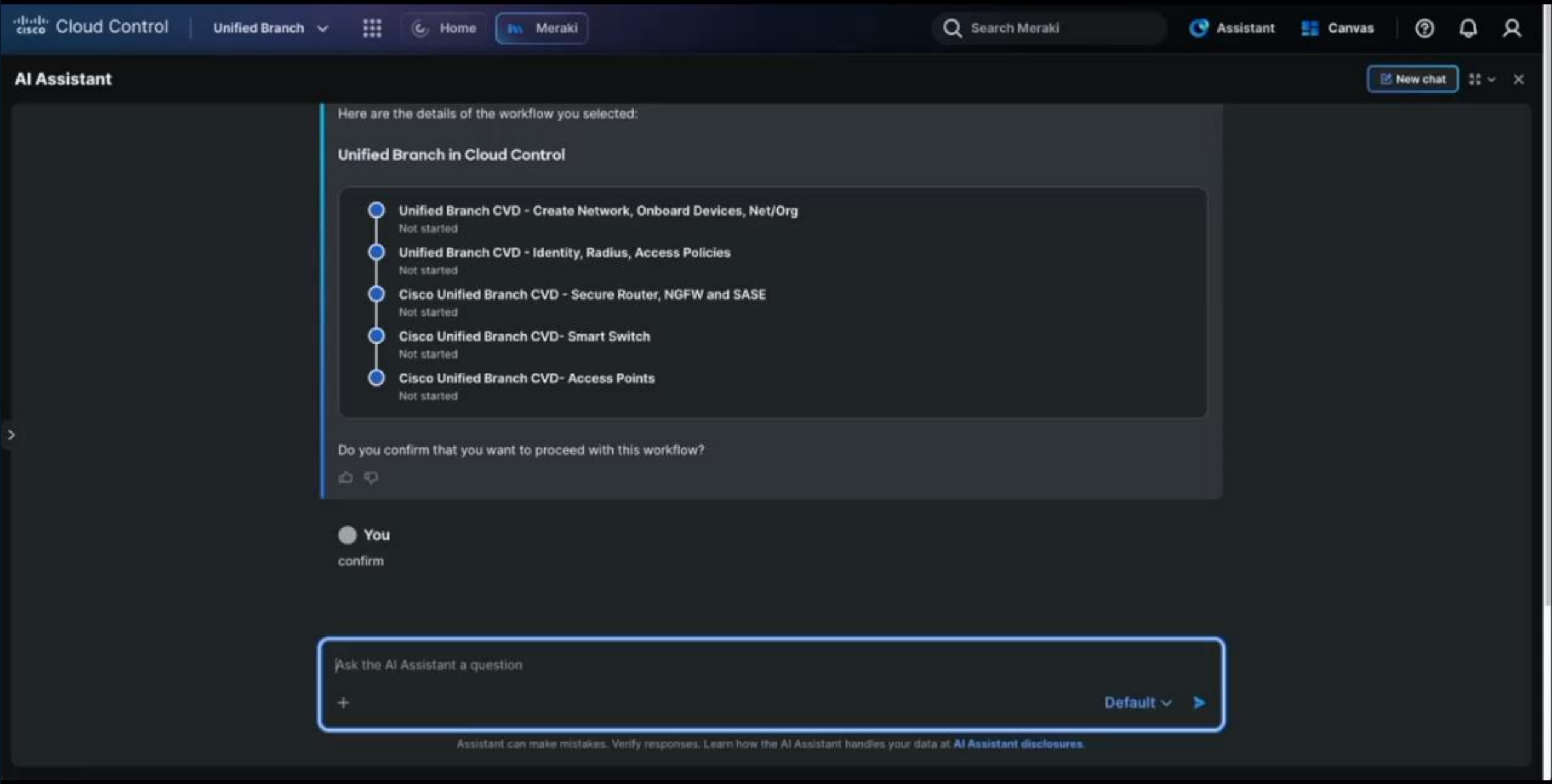
Building a flexible & modular Branch

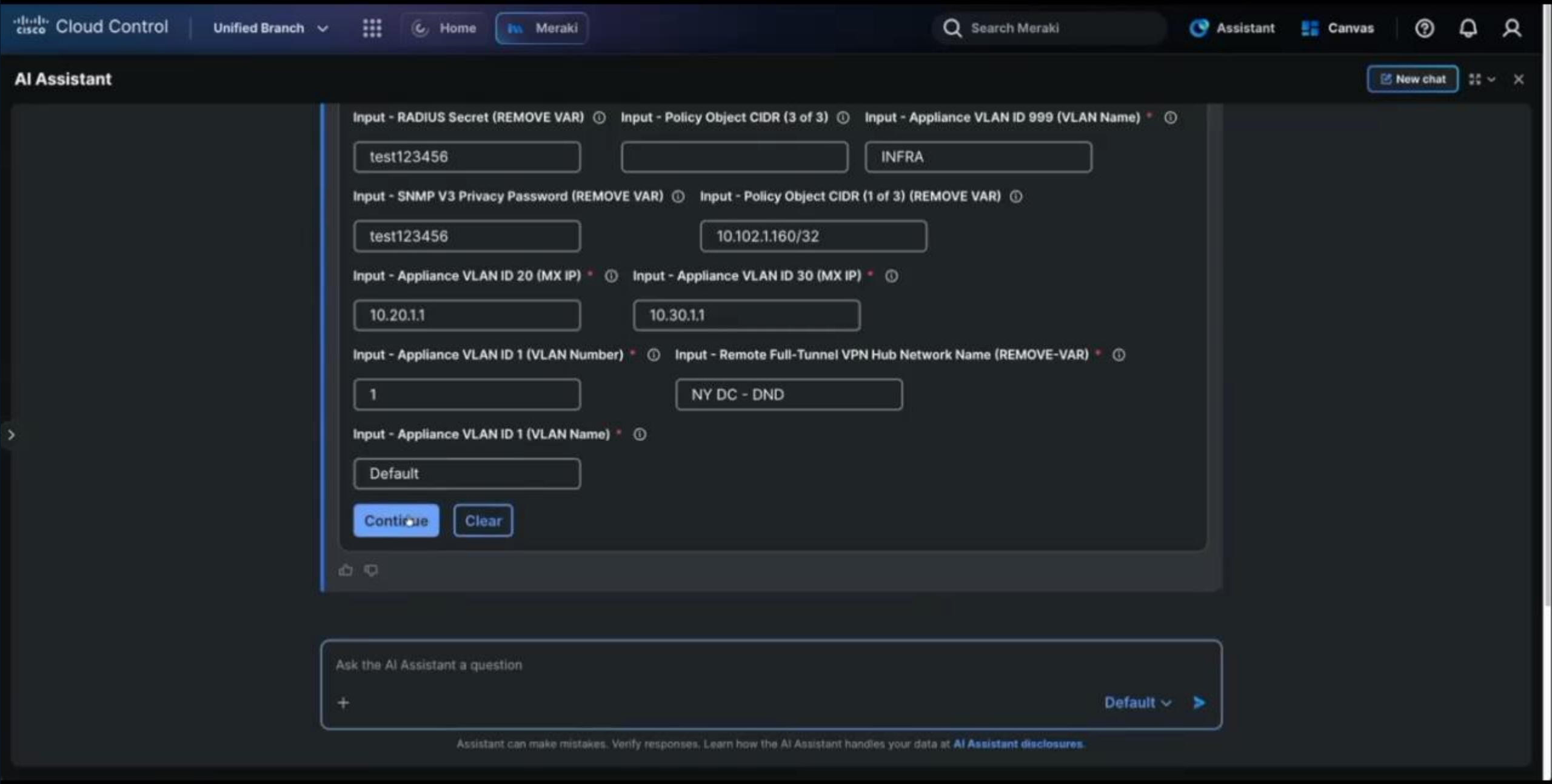


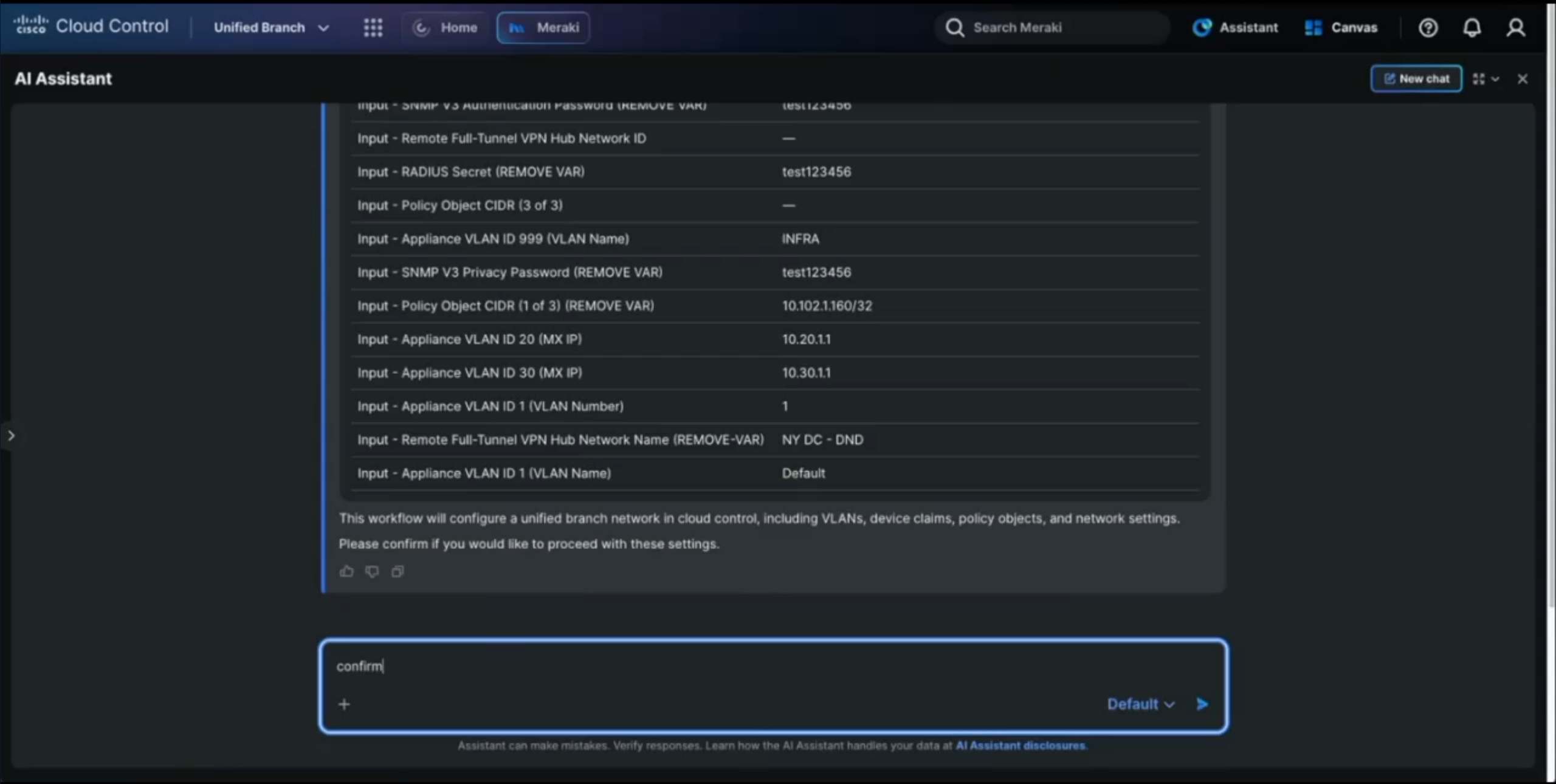
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Unified Branch Demo


Cloud Control
Unified Branch
Home
Meraki
Search Meraki
Assistant
Canvas
AI Assistant
New chat
How can I help today?
Choose a suggestion or use the text field to ask a question. I have limitations and won't always get it right, but your feedback will help me improve.
Network Overview
Troubleshooting
Client & Device Insights
Policies & Configuration
Ask the AI Assistant a question
Default
Assistant can make mistakes. Verify responses. Learn how the AI Assistant handles your data at AI Assistant disclosures.


Cloud Control
Unified Branch
Home
Meraki
Search Meraki
Assistant
Canvas
AI Assistant
New chat
Here are the details of the workflow you selected:
Unified Branch in Cloud Control
Unified Branch CVD - Create Network, Onboard Devices, Net/Org
Not started
Unified Branch CVD - Identity, Radius, Access Policies
Not started
Cisco Unified Branch CVD - Secure Router, NGFW and SASE
Not started
Cisco Unified Branch CVD- Smart Switch
Not started
Cisco Unified Branch CVD- Access Points
Not started
Do you confirm that you want to proceed with this workflow?
You
confirm
Ask the AI Assistant a question
Default
Assistant can make mistakes. Verify responses. Learn how the AI Assistant handles your data at AI Assistant disclosures.


Cloud Control
Unified Branch
Home
Meraki
Search Meraki
Assistant
Canvas
AI Assistant
New chat
Input - RADIUS Secret (REMOVE VAR)
Input - Policy Object CIDR (3 of 3)
Input - Appliance VLAN ID 999 (VLAN Name)
test123456
INFRA
Input - SNMP V3 Privacy Password (REMOVE VAR)
Input - Policy Object CIDR (1 of 3) (REMOVE VAR)
test123456
10.102.1.160/32
Input - Appliance VLAN ID 20 (MX IP)
Input - Appliance VLAN ID 30 (MX IP)
10.20.1.1
10.30.1.1
Input - Appliance VLAN ID 1 (VLAN Number)
Input - Remote Full-Tunnel VPN Hub Network Name (REMOVE-VAR)
1
NY DC - DND
Input - Appliance VLAN ID 1 (VLAN Name)
Default
Continue
Clear
Ask the AI Assistant a question
Default
Assistant can make mistakes. Verify responses. Learn how the AI Assistant handles your data at AI Assistant disclosures.

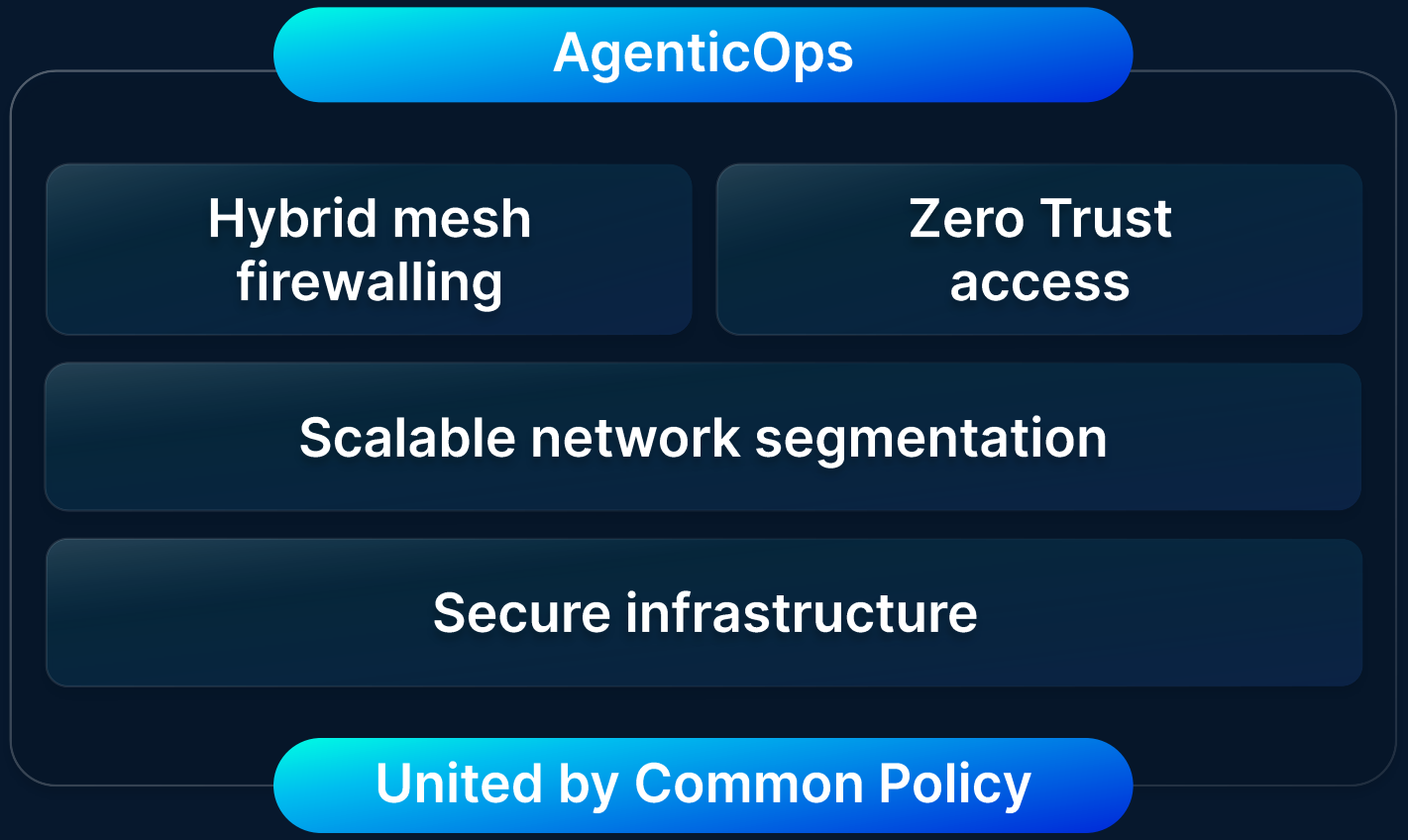

Cloud Control
Unified Branch
Home
Meraki
Search Meraki
Assistant
Canvas
AI Assistant
New chat
Input - SNMP V3 Authentication Password (REMOVE VAR) test123456
Input - Remote Full-Tunnel VPN Hub Network ID —
Input - RADIUS Secret (REMOVE VAR) test123456
Input - Policy Object CIDR (3 of 3) —
Input - Appliance VLAN ID 999 (VLAN Name) INFRA
Input - SNMP V3 Privacy Password (REMOVE VAR) test123456
Input - Policy Object CIDR (1 of 3) (REMOVE VAR) 10.102.1.160/32
Input - Appliance VLAN ID 20 (MX IP) 10.20.1.1
Input - Appliance VLAN ID 30 (MX IP) 10.30.1.1
Input - Appliance VLAN ID 1 (VLAN Number) 1
Input - Remote Full-Tunnel VPN Hub Network Name (REMOVE-VAR) NY DC - DND
Input - Appliance VLAN ID 1 (VLAN Name) Default
This workflow will configure a unified branch network in cloud control, including VLANs, device claims, policy objects, and network settings.
Please confirm if you would like to proceed with these settings.
confirm
Default
Assistant can make mistakes. Verify responses. Learn how the AI Assistant handles your data at AI Assistant disclosures.

Security fused into the Network



Reference design for fusing security into the network

- Identity-first
- Continuously verified
- Enterprise-wide policies
- Comprehensive threat intel
- Distributed enforcement



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Now is the time to make your network post-quantum secure

Harvest now



Decrypt later

Sectors affected now

- Government & Defense
- Financial services
- Energy & Utilities
- Healthcare
- Manufacturing

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Building a quantum resistant WAN

Quantum-safe communication



Encryption

Generate the encryption key for secure communication



Authentication

Verify the authenticity of the communicating devices / users

Quantum-safe product



Secure Boot

Ensure authenticity and integrity of software and hardware

ML-KEM

Key Exchange Mechanism
FIPS-203

ML-DSA

Digital Signature Algorithm
FIPS-204

LMS

Leighton-Micali Signature
NIST SP 800-208

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Scalable network segmentation

Continuously verified identity and group policy applied across the network

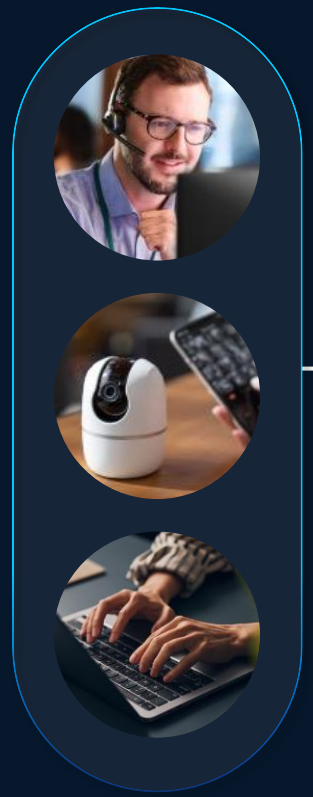


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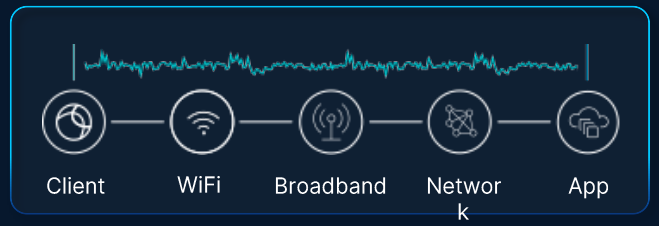
Zero Trust access: Cisco SASE

Secure access for people, things and AI Agents

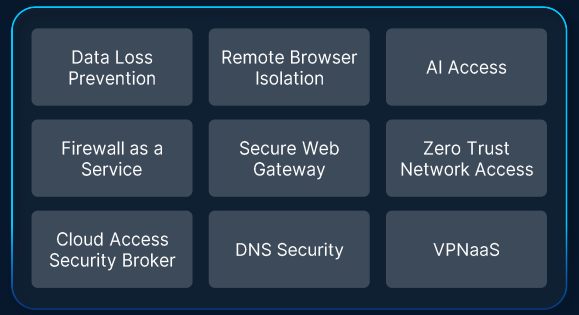
Every device, person, thing, everywhere



Zero downtime:
Experience and Policy Assurance

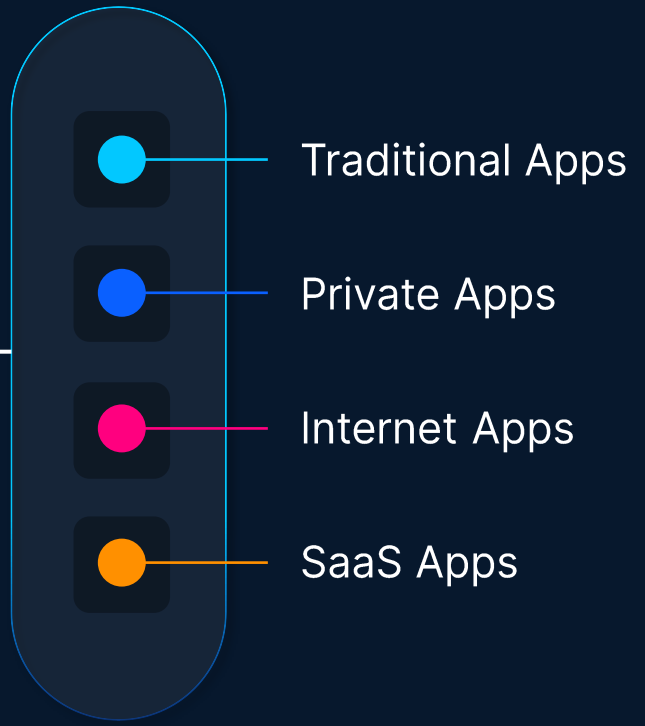


Zero impostors:
Identity Trust



Consistent Security:
Security Service Edge

Zero friction:
We do the plumbing



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Scalable devices ready for AI

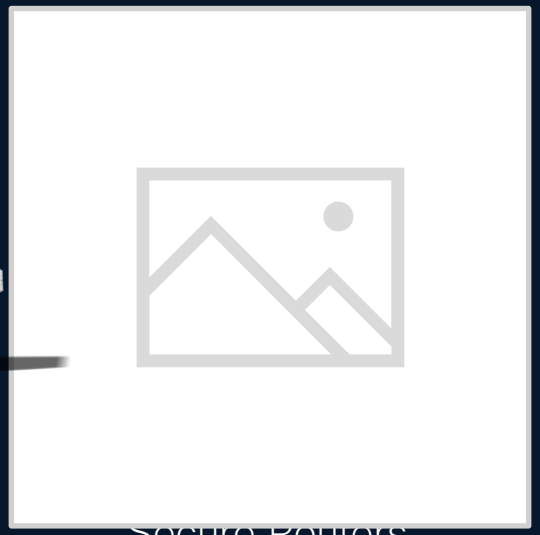


Scalable devices, ready for AI

- Unified hardware
- Unified software
- Unified management
- Post-quantum ready



Smart Switches



Secure Routers



Industrial devices



Secure Firewall

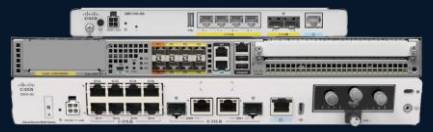


Scalable Wi-Fi 7

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Cisco Enterprise Routing portfolio

Catalyst 8000
ISR 1K/4K
ASR 1K



IOS XE with Routing
and SD-WAN

NEW!

Cisco 8000 Series
Secure Router



Taking the best into a
converged portfolio

Continued investment in
IOS-XE and MX OS

Meraki
MX



MX OS and
Meraki Dashboard

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GA JUNE

Dashboard Managed Secure Routers IOS-XE

- Deliver operational simplicity, automation with full-stack locations
- Unified management, configuration, and monitoring on the Meraki dashboard – world class security + networking
- End to End AgenticOps : Access → WAN → cloud workloads

Cloud CLI



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Cisco Secure Networking Processor

Cisco 8000 Series Secure Routers purpose built for the Future AI Workloads

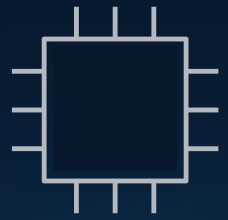
Security

Secure data with high performance and low latency

Post quantum cryptography capable

Firewall acceleration

Built-in AI/ML inferencing engine



Networking

Higher performance and power efficiency for demanding traffic

Support for high-speed ethernet up to 25GE

Scalable processor operations for up to 30% savings

Programmable microcode for seamless feature upgrades

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Cisco 8000 Series Secure Routers for every size location



Small Branch: 8100

10 Variants

IPsec:
Up to 1.5 Gbps

SD-WAN:
Up to 1 Gbps

Threat Protection:
Up to 1 Gbps



Medium Branch: 8200

9 Variants

IPsec:
Up to 5 Gbps

SD-WAN:
Up to 4 Gbps

Threat Protection:
Up to 2.5 Gbps



Large Branch: 8300

2 Variants

IPsec:
Up to 20 Gbps

SD-WAN:
Up to 15 Gbps

Threat Protection:
Up to 7 Gbps



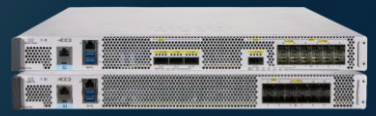
Campus: 8400

2 Variants

IPsec:
Up to 45 Gbps

SD-WAN:
Up to 23 Gbps

Threat Protection:
Up to 11 Gbps



Data Center: 8500/8600

3 Variants

IPSec:
Up to 45 Gbps/225 Gbps

SD-WAN:
Up to 23 Gbps/80 Gbps

Route Scale up to 8M/16M

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Best in class branch firewalling



Cisco 8000 Series Secure Routers

TALOS

99.3% Intrusion prevention (IPS) effectiveness

99.8% Malware detection rate

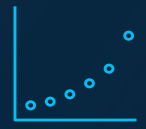
NetSecOPEN

- Independent evaluation
- Open standard RFC 9411
- Real-world traffic mixes

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Why Cisco Unified Branch



Security is fused in ...

not bolted on



One platform from

Access -> WAN -> Cloud



Experience assurance...

Is a first-class outcome



Branch-as-code and AgenticOps

For drastically simplified operations

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Thank you




CISCO