The bridge to possible

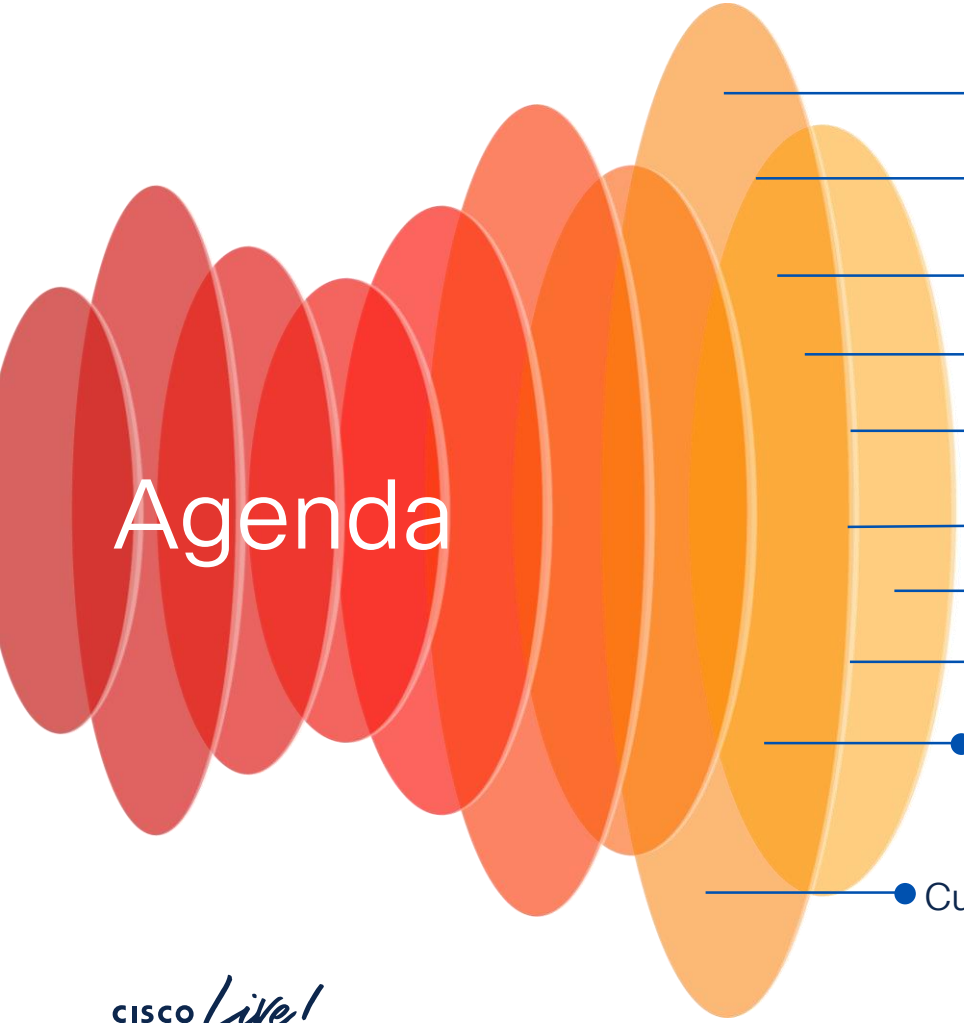
Catalyst Center and Meraki Cloud:
The right choice for your Catalyst 9000 Switch Management!

Aishwarya Sudeep
Technical Marketing Engineer
BRKENS-1601

cisco Live!

#CiscoLive

Agenda



- Evolving **Enterprise** Networks
- Overview on **Cisco Catalyst 9000 Series**: Leading the Market with Innovation
- The Shift to **Network Management Tools**
- **Key factors** influencing your Choice
- Your IT Operating model, your way!
- **Cisco Catalyst Center** Overview
- **Meraki Cloud Management** Overview
- **Meraki Cloud Monitoring** Overview
- Catalyst 9000 Lifecycle Management + Demos
  - All 3 – **Catalyst Center**, **Meraki Cloud Management** and **Monitoring**
- Customer Deployment Use Cases

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Catalyst 9000 Management Learning Map

Monday–3rd

10:30AM **BRKOPS-2416**
7 Habits for Success with Cisco Catalyst Center

1:00PM **BRKTRS-2004**
Simplify Catalyst Switch and Wireless Operations with Meraki Dashboard

1:00PM **BRKOPS-2596**
Revolutionize Your Network Management with Cisco Catalyst Center: Physical or Virtual on AWS or VMware ESXi

1:00PM **IBOOPS-2882**
Let's Talk about Catalyst Center Integrations

1:00PM **BRKOPS-1461**
Discovering and Managing Brownfield Deployment with Cisco Catalyst Center

Wednesday–5th

12PM **BRKENS-1601**
Catalyst Center and Meraki Cloud: The Right Choice for your Catalyst 9000 Switch Management!

Thursday–6th

8:00AM **BRKARC-1975**
Cloud-Native Architecture Advancements: The Evolution of the Catalyst Switch in Meraki's Dashboard

cisco Live!

About Aishwarya (Ash)

Experience

- Over 2+ years at Cisco Systems as a Technical Marketing Engineer in Enterprise Switching
- Specialized in Catalyst 9300 Access switches

Education

- MSc in Information Systems from New York University

Interests

- Outdoor activities and exploring new places for the food!
- On a mission to run a marathon!

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Cisco Webex App

https://ciscolive.ciscoevents.com/ciscolivebot/#BRKENS-1601

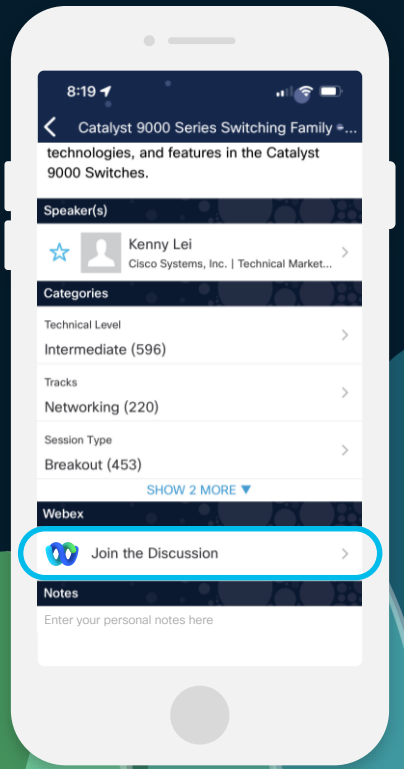
Questions?

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 June 7, 2024.



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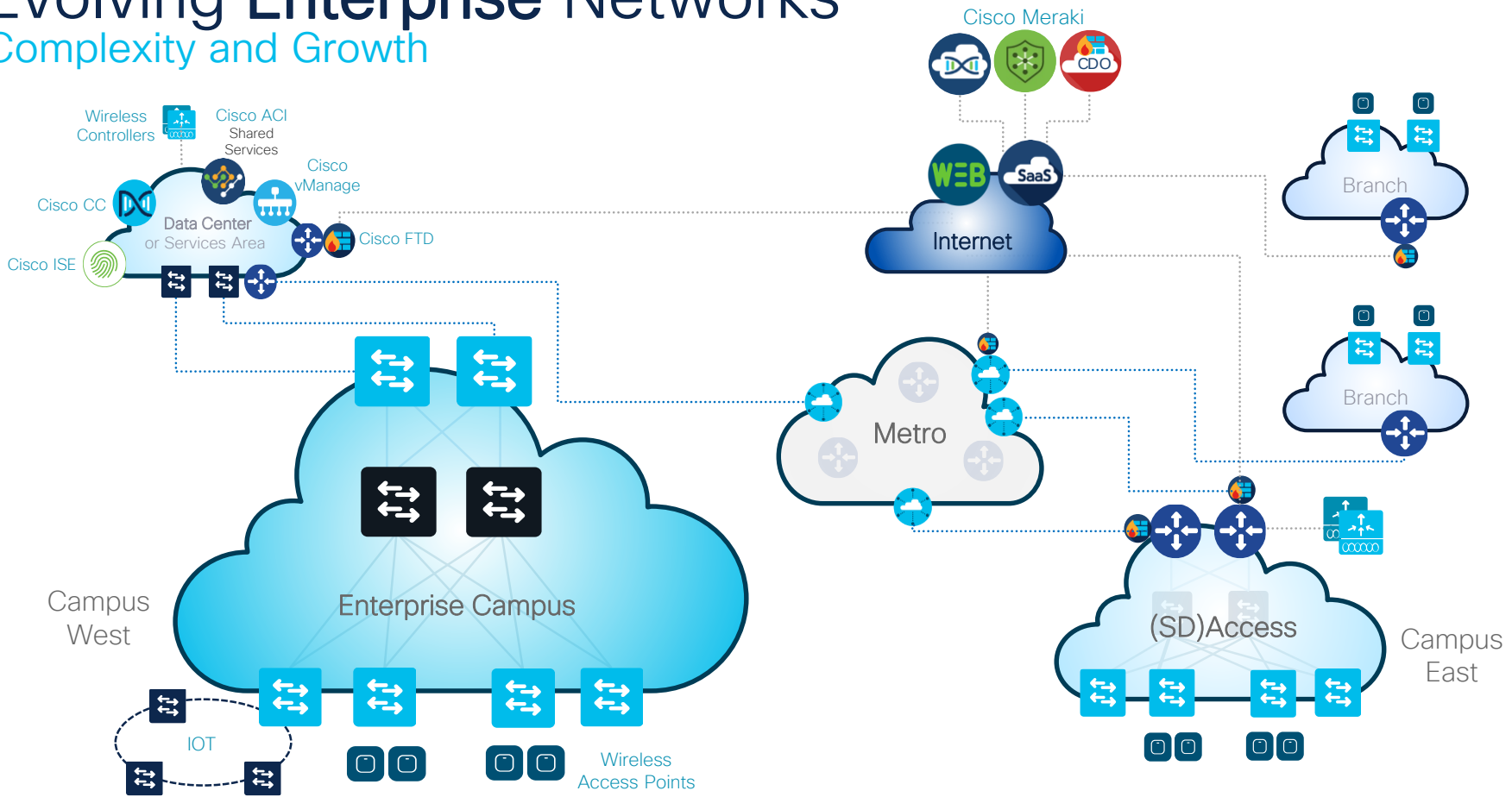
Evolving **Enterprise** Networks

Complexity and Growth



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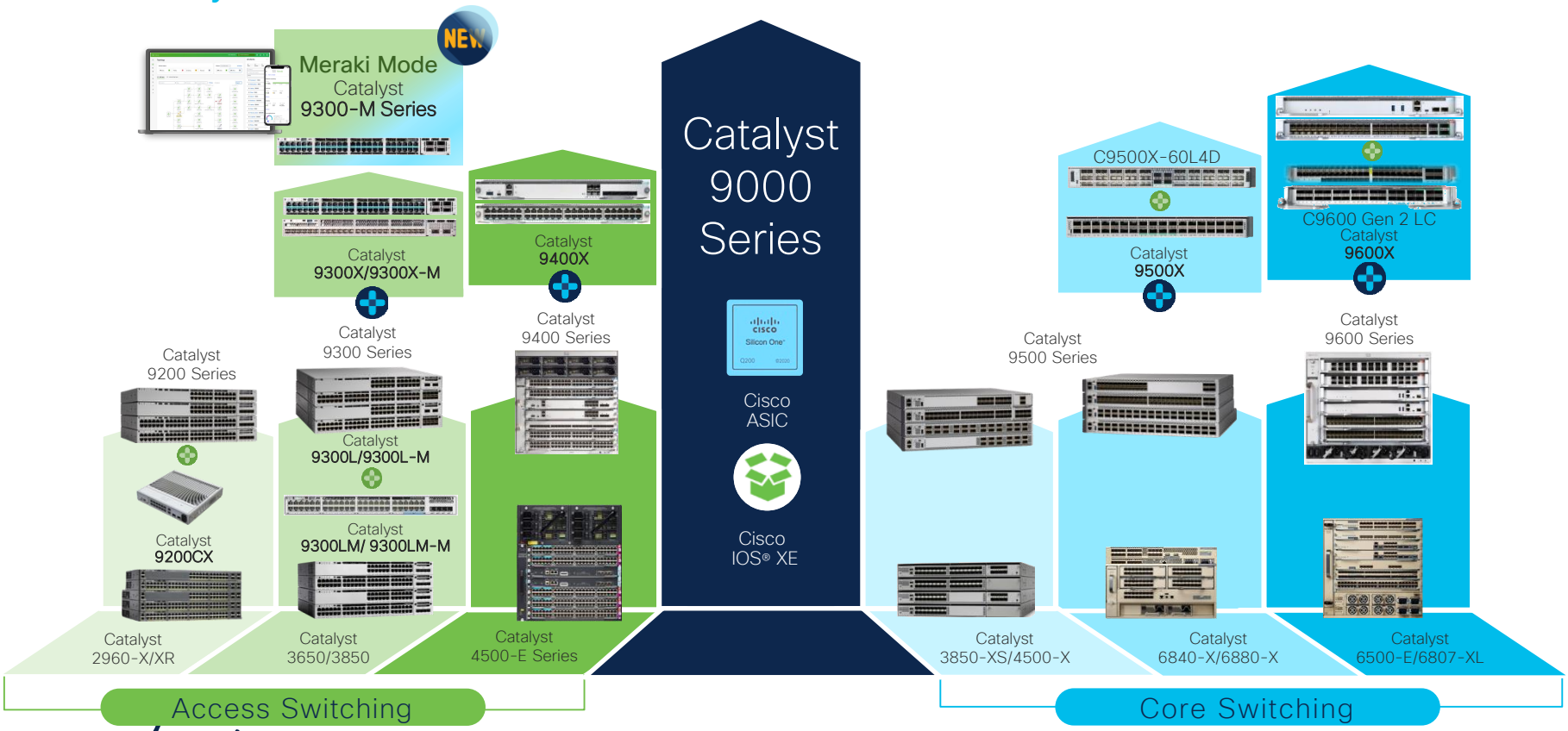
Cisco **Catalyst 9000** Switching Portfolio

One family from Access to Core – Common hardware & software



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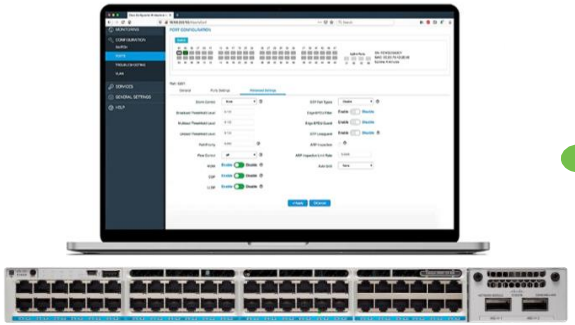
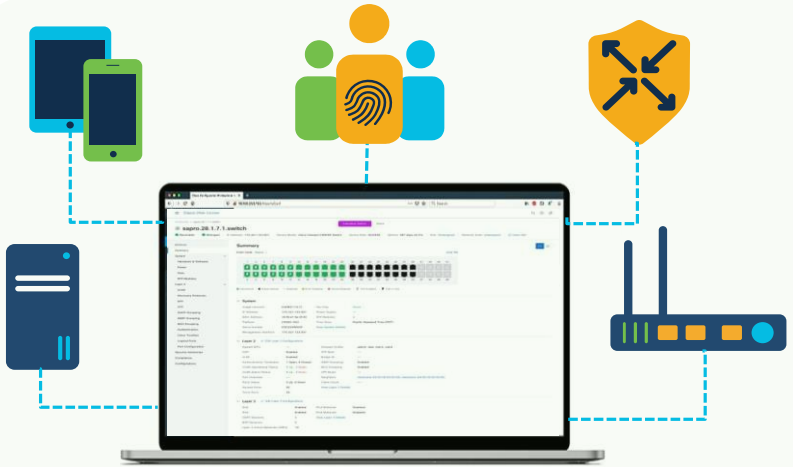
The Shift to **Unified** Network Management Tools

Elevating Network Infrastructure





Traditional Way of Management

- Cisco IOS XE software Command-Line Interface
- Graphical User Interface (GUI) for Switches
- Simple Network Management Protocol (SNMP)

Network Management Tool

- Unified device management from a single dashboard
- Real-time performance analytics and reporting
- Automated configuration backups and firmware updates
- Advanced security features for threat detection and mitigation

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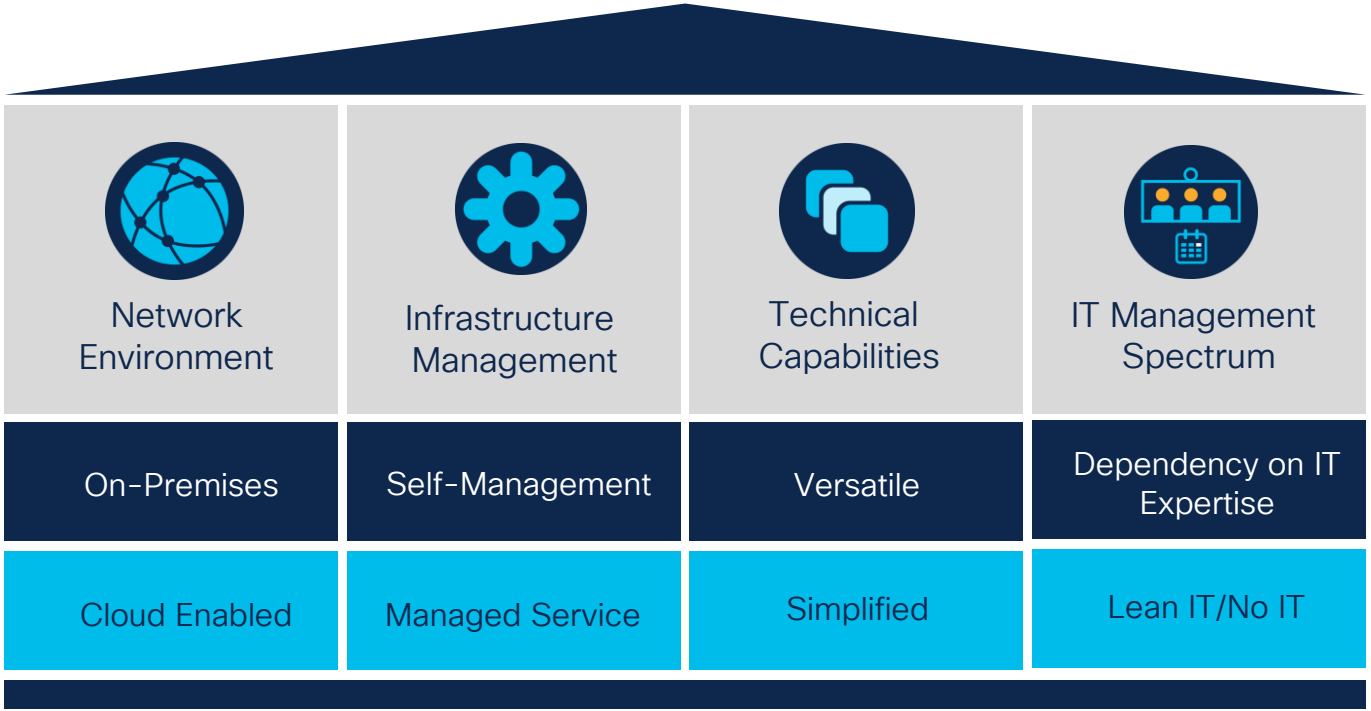
Key Factors

Influencing Your Network Management Tool Selection



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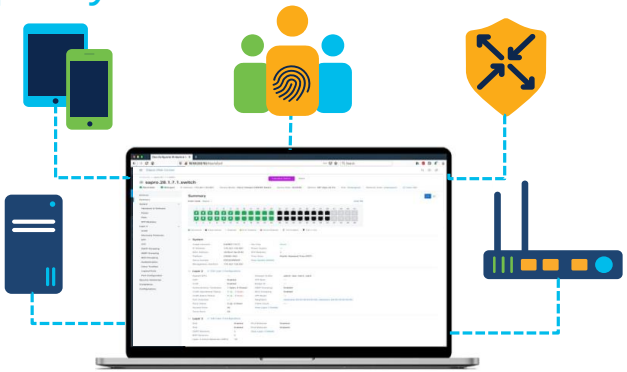
Your Journey, your way

Flexibility, choice, and simplicity



On-Premises Management

Do-it-Yourself
Operational Flexibility

Catalyst Center

Cloud Management

Cloud first IT Transformation
Operational Simplicity

cisco Meraki

Catalyst 9000 Series

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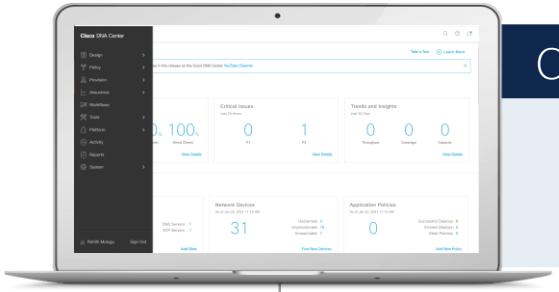
Cisco Catalyst Center

Controller for Campus of the Future



Cisco Catalyst Center

Design | Policy | Provision | Assurance

Cisco Catalyst Center Appliance

Physical and virtual infrastructure

Cisco and third party

Complete network management system

- End-to-end health information in real time
- Granular visibility
- Simplified workflows

Analytics for assurance

- Verify intent of network settings
- Proactively resolve issues
- Reduce time spent troubleshooting

Automation for provisioning

- Zero-touch deployment
- Device lifecycle management
- Policy enforcement

Platform for extensibility

- Integrate APIs with third-party solutions
- Integrate and customize ServiceNow
- Evolve operational tools and processes

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Cisco Catalyst Center

Formerly Cisco DNA Center

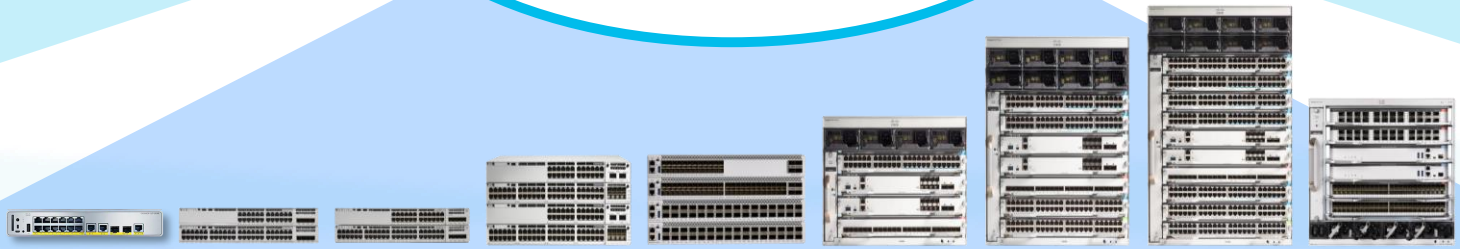
Physical Appliance

Catalyst Center

Virtual Appliance

aws

VMware ESXi™



Catalyst 9000 Series

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Cisco Catalyst Center
Consideration Factors

+3 Million
Catalyst Switches Managed!

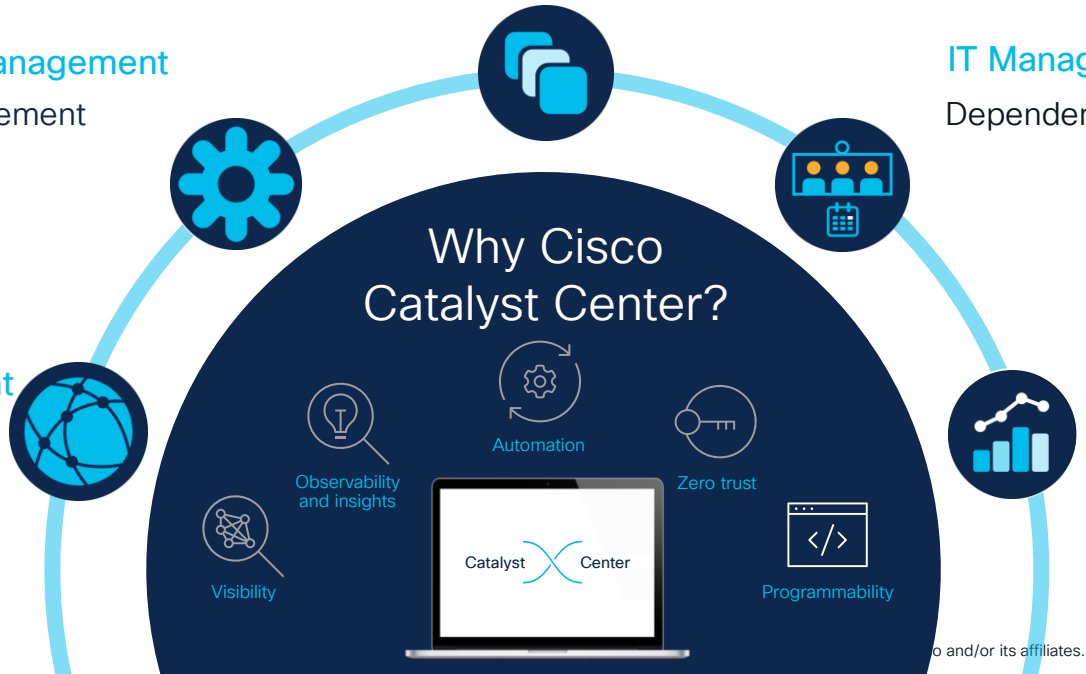
3
Technical Capabilities
Feature Richness, Customization

2
Infrastructure Management
Self-Management

4
IT Management Spectrum
Dependency on IT Expertise

1
Network Environment
Hosted On Premises or Public Cloud (VM)

5
Scalability
Horizontal Scaling
"You Scale"
Power of IaaS



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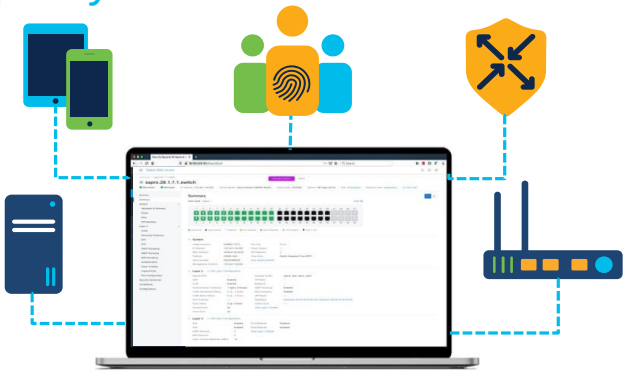
Your IT operating model, your way

Flexibility, choice, and simplicity



On-Premises Management

Do-it-Yourself
Operational Flexibility

Catalyst Center

Cloud Management

Cloud first IT Transformation
Operational Simplicity

cisco Meraki

Catalyst 9000 Series

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Meraki Cloud Management for **Catalyst Switches**

Unify network management in the cloud

Unlock operational excellence with the **Meraki dashboard**

OPERATIONAL SIMPLICITY

Turnkey, zero-touch provisioning
Automated firmware management
Remote troubleshooting

INTUITIVE AND EASY TO USE

Guided troubleshooting with context
Comprehensive NetOps built in
Powerful and scalable full-stack security segmentation

WORKS WELL TOGETHER

Network-wide assurance
Rich API and integration ecosystem
Full-stack provisioning, reporting and monitoring

SMARTER OVER TIME

Smart alerting and logging
New capabilities with no downtime
Automated misconfiguration detection and remediation

Streamlined end-to-end management | Proactive insights | Access anywhere | Built-in zero-trust security

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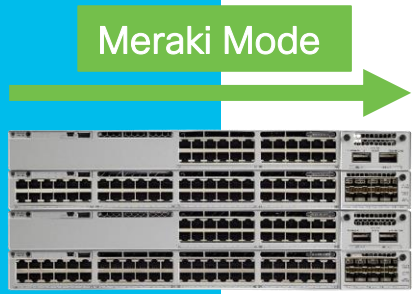
Please refer to this migration documentation for supporting models and licensing.

Catalyst 9300

Ready to unlock flexibility and control at the cloud scale today!

Currently running Cisco IOS XE



Migrate to Meraki Cloud Managed

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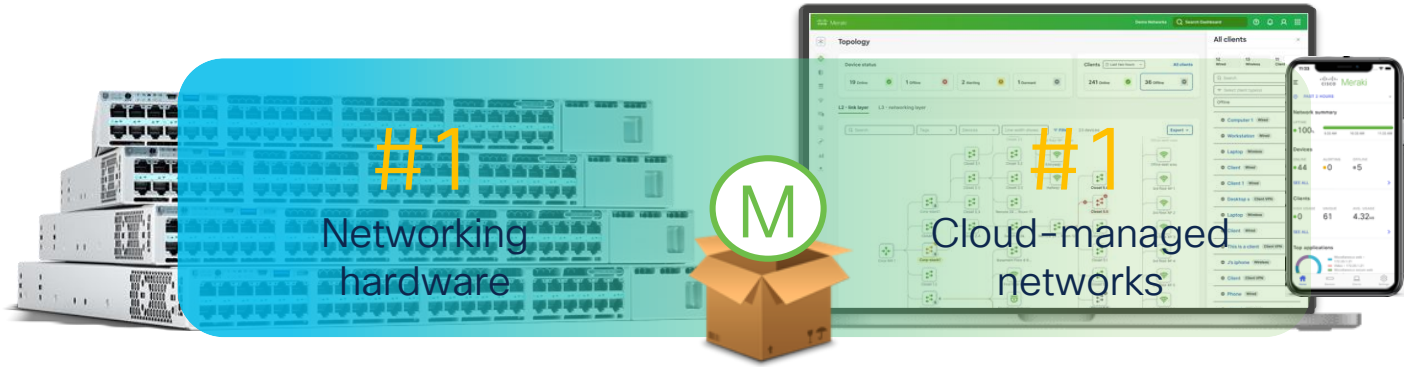
Maximize values at cloud scale
with Catalyst 9300-M

Orderable with Meraki Day 0 experience



From the best of both worlds:

Catalyst 9300-M

Unify campus and branch network operations with a centralized, intuitive experience

Extend common policy seamlessly across Catalyst and Meraki portfolios

Gain operational excellence through streamlined management across networks and technologies

Plus, benefit from investment protection and operational flexibility

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Meraki Cloud Management
Consideration Factors

*Since 2023

+5K
Catalyst Switches Managed!*

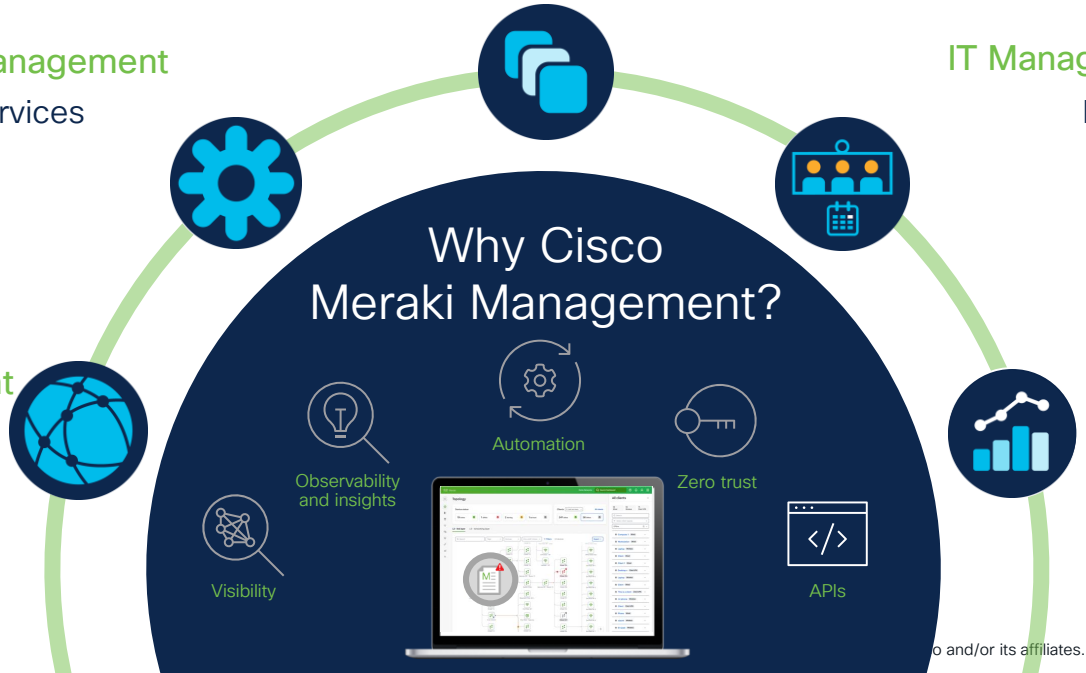
3
Technical Capabilities
Simplified

2
Infrastructure Management
Managed Services

4
IT Management Spectrum
Lean IT/No IT

1
Network Environment
Meraki Cloud

5
Scalability
Cloud Scaling
"We Scale"
Power SaaS



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Hybrid is a Real Option!

On-Premise management

Use cases require on-prem delivery

Cloud enabled - Hybrid management

Need to retain on-prem control, but use select cloud tools to help run the network

Cloud management

Prefer cloud-enabled delivery for simplicity

Delivering optimized, simplified experiences for all customers

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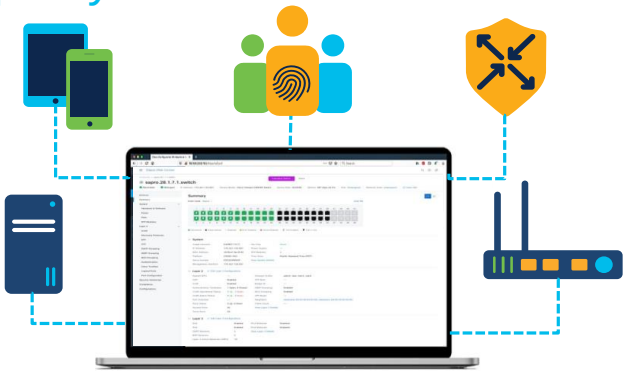
Your IT operating model, your way

Flexibility, choice, and simplicity



On-Premises Management

Do-it-Yourself
Operational Flexibility

Catalyst Center

Cloud Monitoring

Hybrid choice

Cloud Management

Cloud first IT Transformation
Operational Simplicity

cisco Meraki

Catalyst 9000 Series

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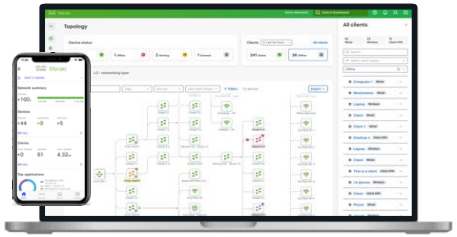
Cisco **Cloud for Catalyst**

Catalyst Switching with the Benefits of Meraki Cloud Management & Monitoring

Cloud-Monitored Catalyst

- Centralized **Monitoring & Unified** view of Cisco network infrastructure
- Detailed Network Usage Statistics
- Device Health & Troubleshooting
- **New Early Access Features**
  - Packet Captures
  - Topology View
  - Config Diff
  - Software Upgrade
  - Streamlined Secure Onboarding to the Cloud



Same powerful hardware with flexible operations

Cloud-Managed Catalyst

Full management and monitoring

- Inventory and topology
- Device health
- Energy monitoring and visibility
- Client and application usage & visibility
- Powerful micro-segmentation with analytics, logging & threat containment
- Guided troubleshooting & remediation
- Automated misconfiguration detection and remediation
- Automated image management
- End-to-end network management
- Rich API and integration ecosystem

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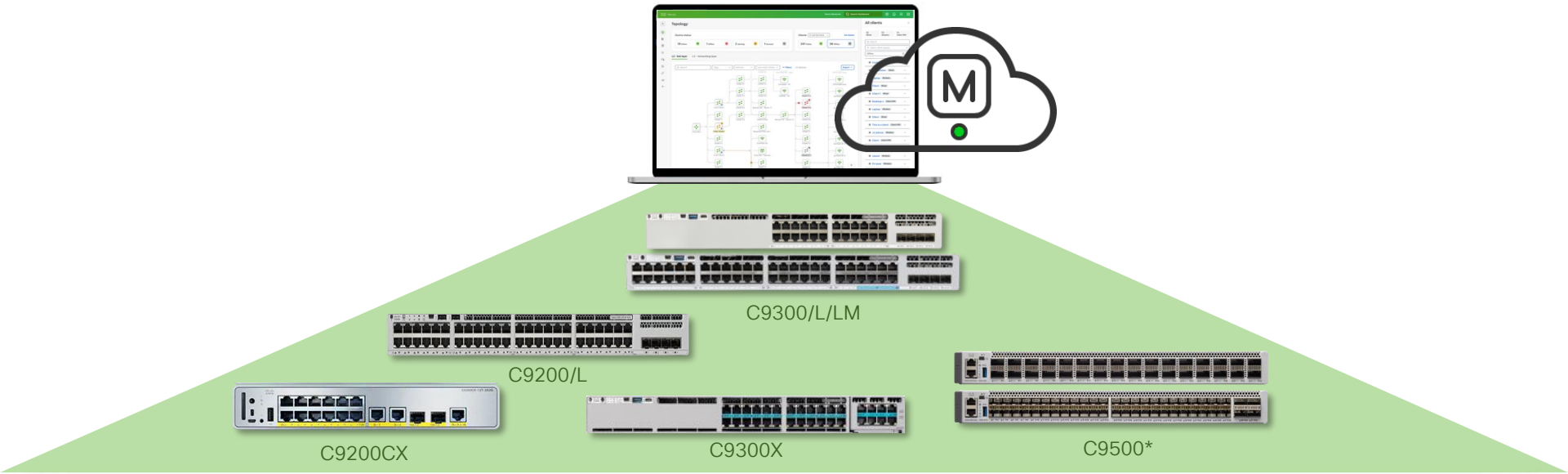
Cisco Cloud Monitoring
Meraki Dashboard

Licensing
DNA Advantage
DNA Essentials

Software
IOS XE 17.3+



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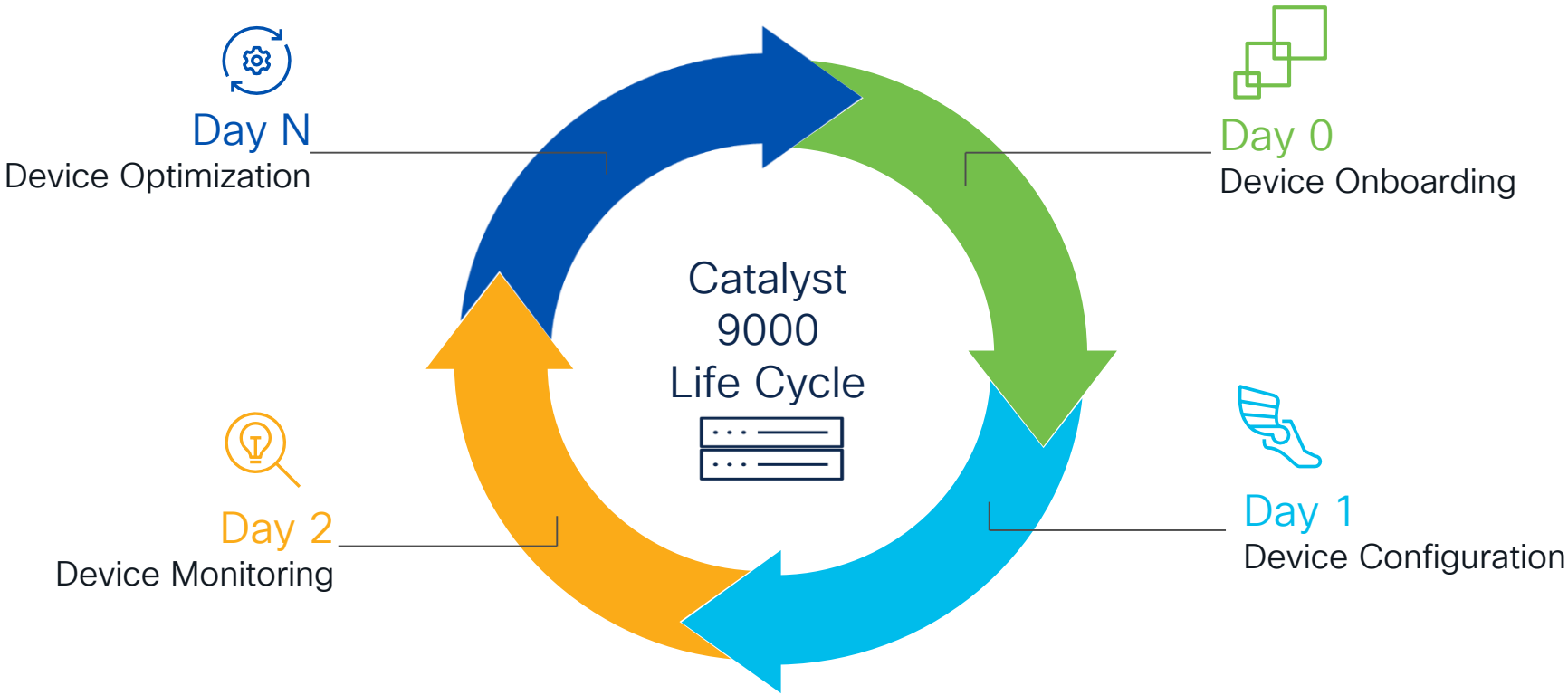
Lifecycle Management of Catalyst 9000

From Initial Deployment to Continuous Monitoring



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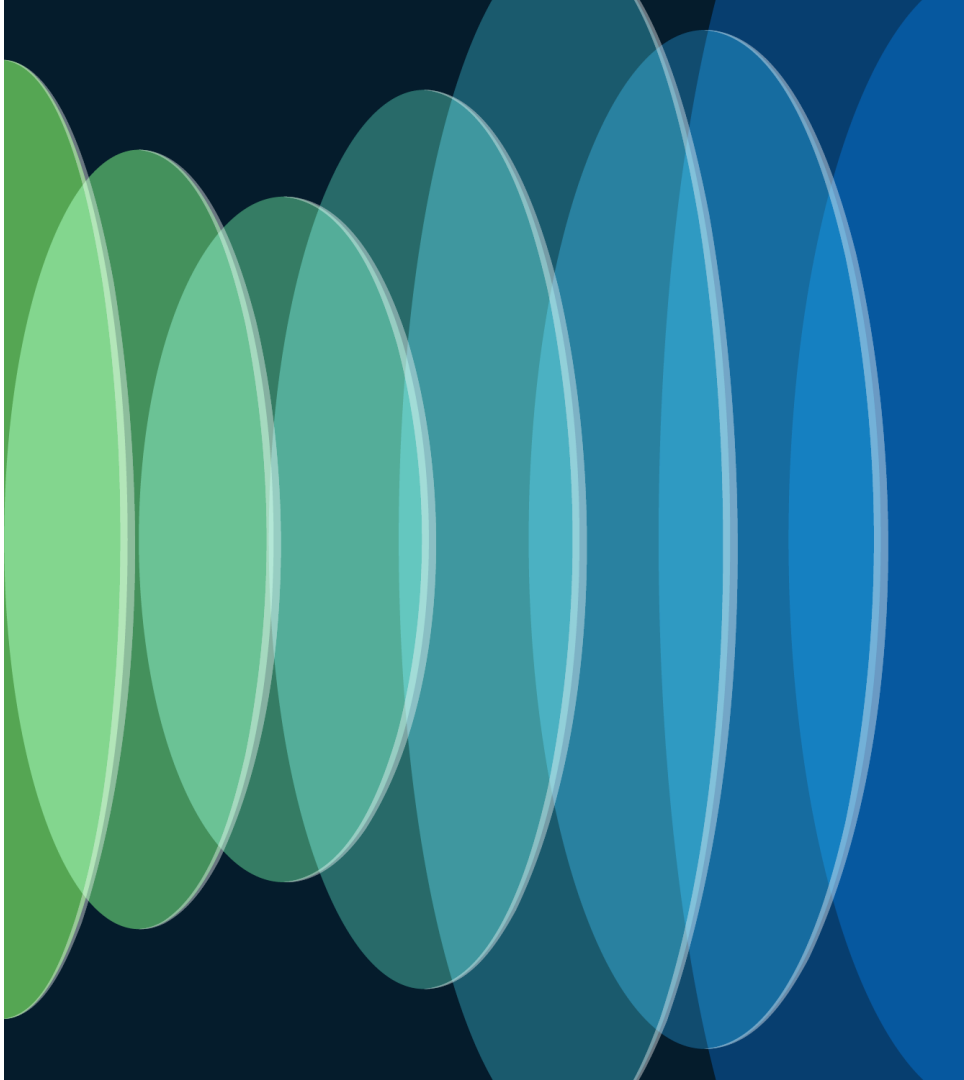
Cisco Catalyst Center



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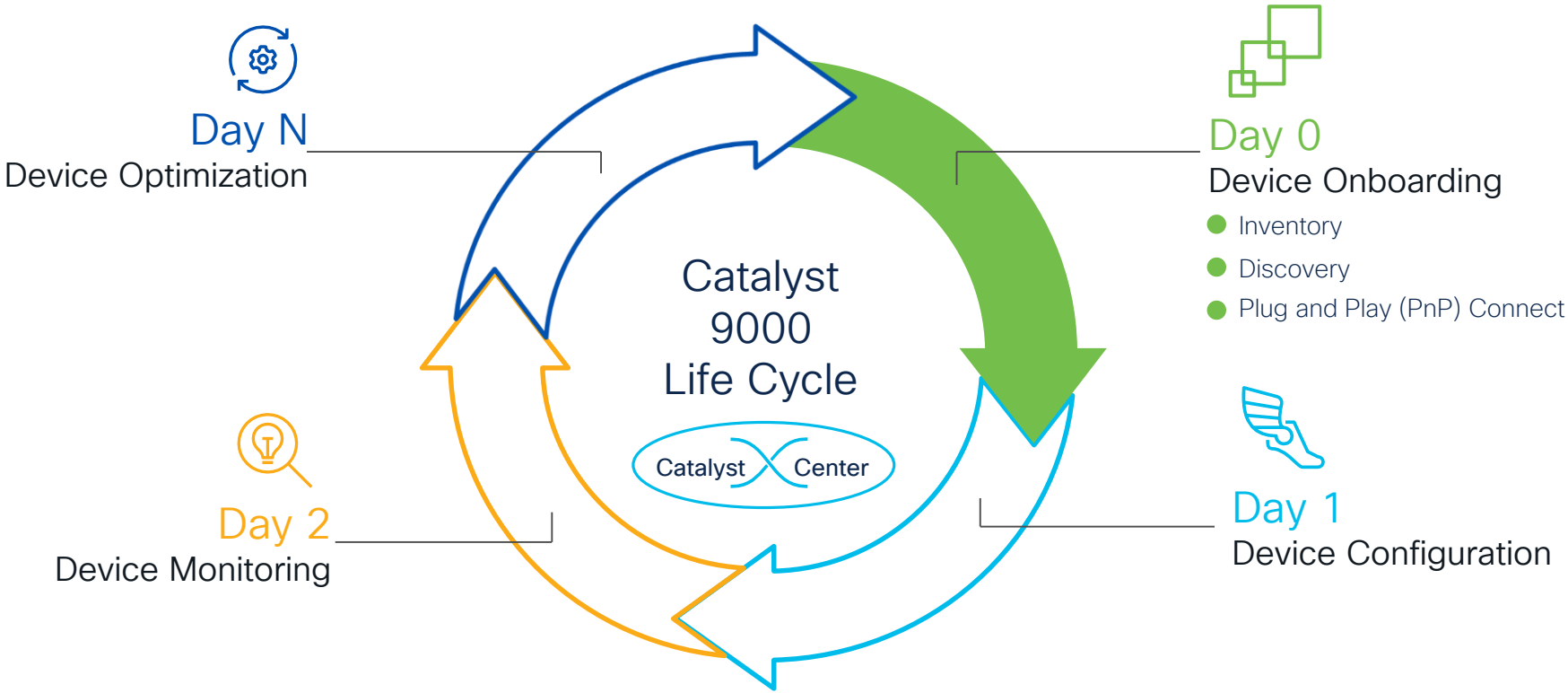

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Welcome to Catalyst Center!

Explore

Some of your license compliance requirements have not been met. Learn more.

Assurance Summary

Health

Healthy as of May 27, 2024 1:38 PM

100% Network Devices

--% Wireless Clients

100% Wired Clients

View Details

Critical Issues

Last 24 Hours

0 P1

1 P2

View Details

Trends and Insights

Last 30 Days

-- AP Performance Advisories

0 Trend Deviations

View Details

Network Snapshot

Sites

As of May 27, 2024 1:38 PM

2

DNS Servers : 0

NTP Servers : 0

Add Sites

Network Devices

As of May 27, 2024 1:38 PM

1

Unclaimed: 0

Unprovisioned: 0

Unreachable: 0

Find New Devices

Network Profiles

As of May 27, 2024 1:38 PM

0

Routing: 0

Switching: 0

Wireless: 0

Assurance: 0

WAN: 0

Manage Profiles

Import Images/SMUs

Software Image Updates

As of May 27, 2024 1:38 PM

0

Success : 0

In Progress : 0

Failure : 0

Cisco DNA Licensed Devices

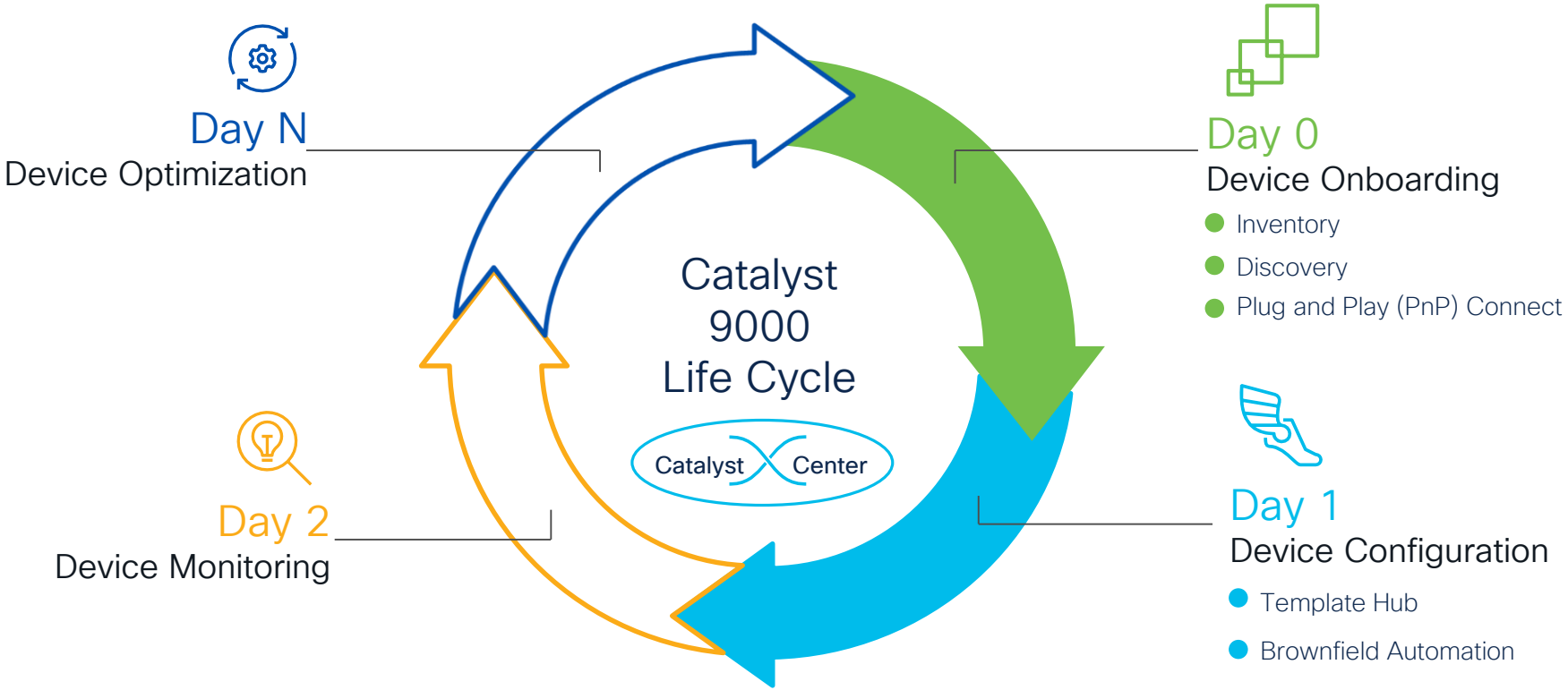
As of May 27, 2024 1:38 PM

12

Switches: 12

Routers: 0

Wireless: 0



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Welcome to Catalyst Center!

Explore

Some of your license compliance requirements have not been met. Learn more.

Assurance Summary

Health

Healthy as of May 27, 2024 3:00 PM

Network Devices	Wireless Clients	Wired Clients
100%	--%	100%

View Details

Critical Issues

Last 24 Hours

P1	P2
0	1

View Details

Trends and Insights

Last 30 Days

AP Performance Advisories	Trend Deviations
--	0

View Details

Network Snapshot

Sites

As of May 27, 2024 3:00 PM

2

DNS Servers : 0
NTP Servers : 0

Add Sites

Network Devices

As of May 27, 2024 3:00 PM

14

Unclaimed: 0
Unprovisioned: 0
Unreachable: 0

Find New Devices

Network Profiles

As of May 27, 2024 3:00 PM

1

Switching: 1
Routing: 0
Wireless: 0
Assurance: 0
WAN: 0

Manage Profiles

Import Images/SMUs

Software Image Updates

As of May 27, 2024 3:00 PM

0

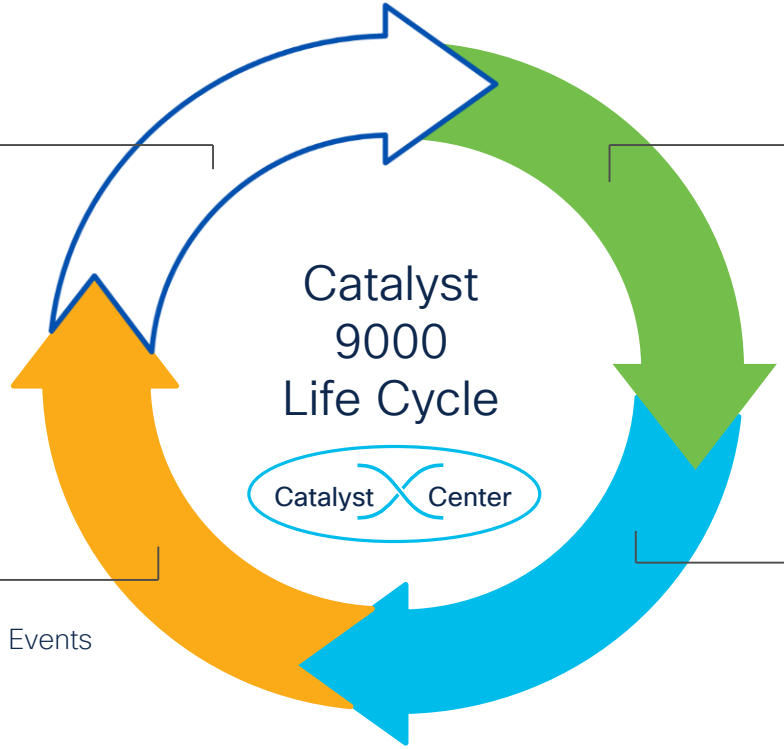
Success : 0
In Progress : 0
Failure : 0

Cisco DNA Licensed Devices

As of May 27, 2024 3:00 PM

12

Switches: 12
Routers: 0
Wireless: 0



Day N
Device Optimization

Day 0
Device Onboarding

- Inventory
- Discovery
- Plug and Play (PnP) Connect

Day 2
Device Monitoring

- Device 360° – Health, Issues and Events
- PoE Dashboard
- AI Network Analytics

Day 1
Device Configuration

- Template Hub
- Brownfield Automation

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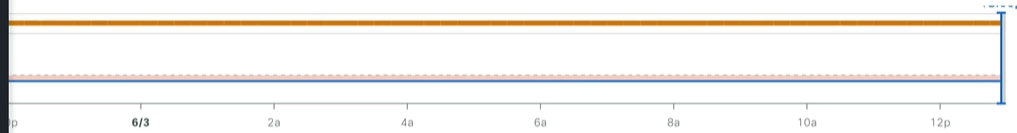
Design
Policy
Provision
Assurance
Sustainability
Workflows
Tools
Platform
Activities
Reports
System
Explore

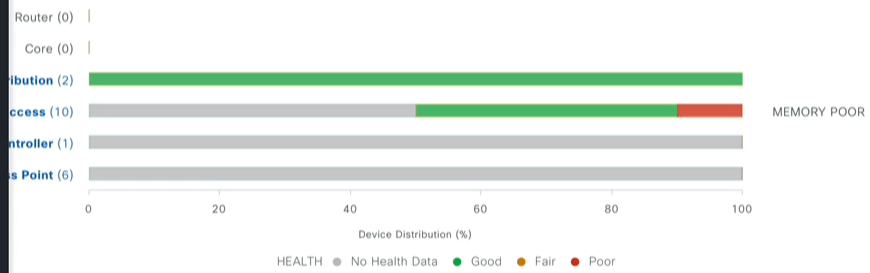
DASHBOARDS
Health
Issues and Events
Sensors
Wi-Fi 6
PoE
Dashboard Library
AI NETWORK ANALYTICS
Trends and Insights
Network Heatmap
Peer Comparison
Network Comparison
Baselines
AI-Enhanced RRM
SETTINGS
Issue Settings
Health Score Settings
Site Analytics Settings
Sensors
Intelligent Capture Settings
SSID Monitoring Settings

SD-Access AI Analytics

Jun 2, 2024 12:50 PM - Jun 3, 2024 12:55 PM



Actions



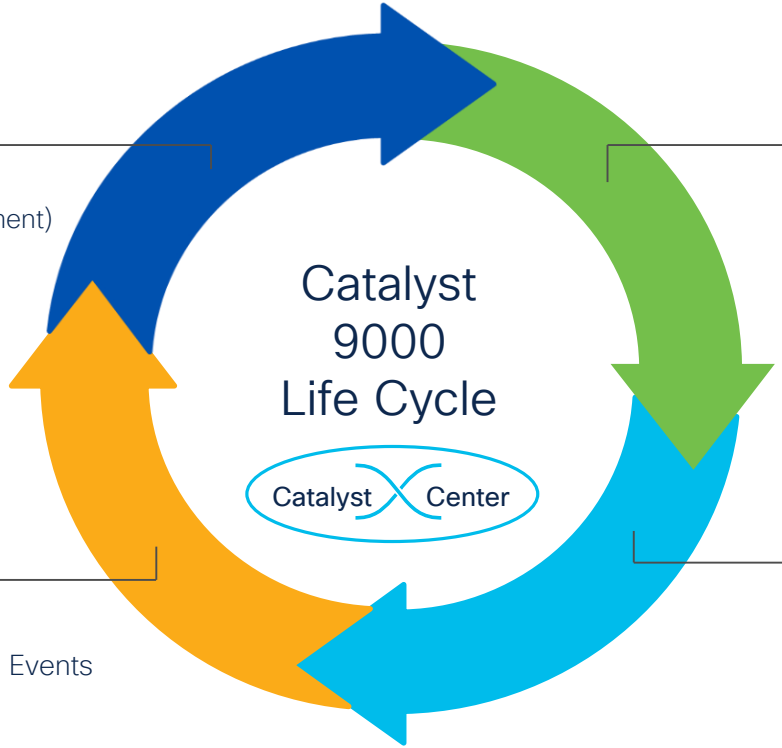
View Details

Top N APs by Client Count

LATEST TREND

Top N APs by High Interference

LATEST TREND 2.4 GHz



Day N
Device Optimization
- SWIM (Software Image Management)
- Image compliance
- RMA/Device Refresh

Day 0
Device Onboarding
- Inventory
- Discovery
- Plug and Play (PnP) Connect

Day 2
Device Monitoring
- Device 360° – Health, Issues and Events
- PoE Dashboard
- AI Network Analytics

Day 1
Device Configuration
- Template Hub
- Brownfield Automation

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Welcome, admin

Explore

There is a new Cisco DNA Center system update available. Learn more

Some of your license compliance requirements have not been met. Learn more.

Actuate the most value from your Cisco DNA Center with the adoption journey map.

Here you can accelerate feature adoption with simplicity and time to value, as you guide your organization on its digital transformation journey with Cisco DNA Center.

Begin your Journey

Assurance Summary

Health

Healthy as of May 29, 2024 10:01 PM

77%	--%	100%
Network Devices	Wireless Clients	Wired Clients

View Details

Critical Issues

Last 24 Hours

1	4
P1	P2

View Details

Trends and Insights

Last 30 Days

--	0
AP Performance Advisories	Trend Deviations

View Details

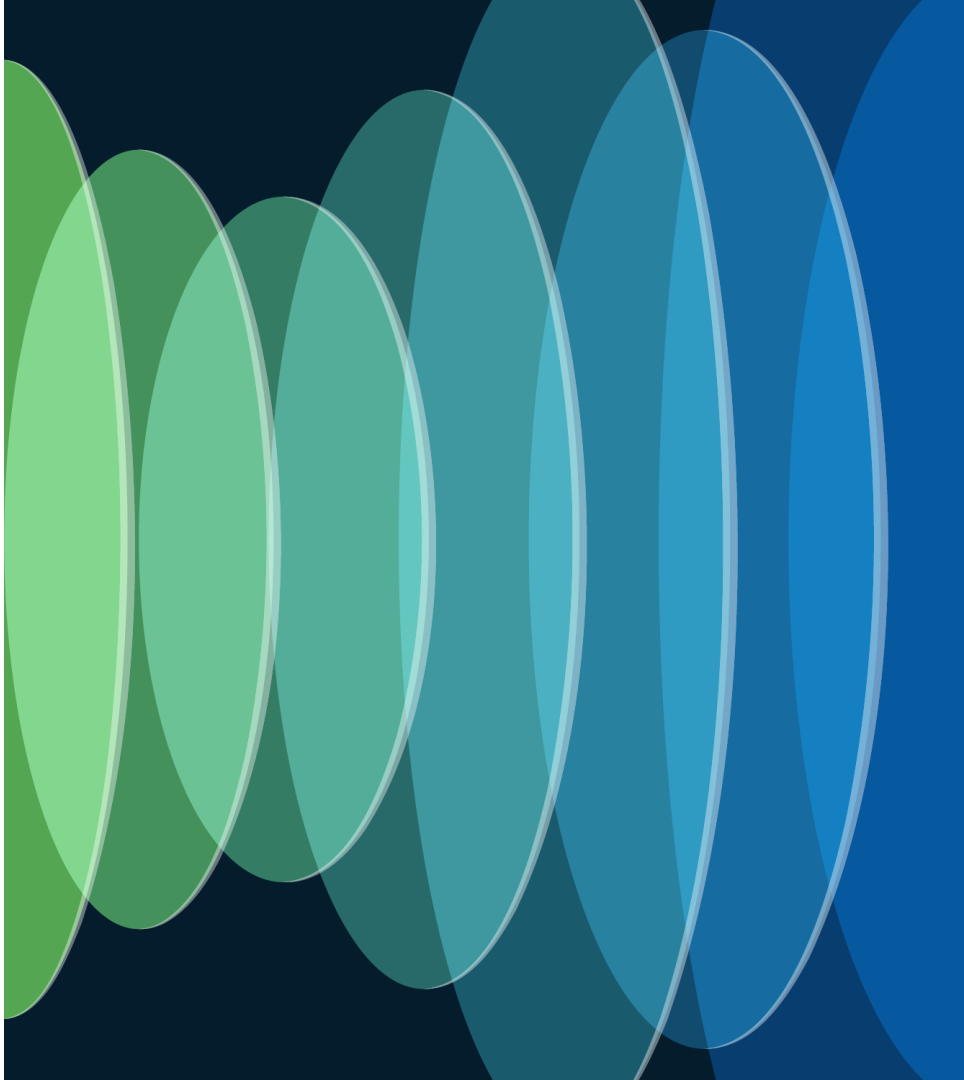
Network Snapshot

Sites

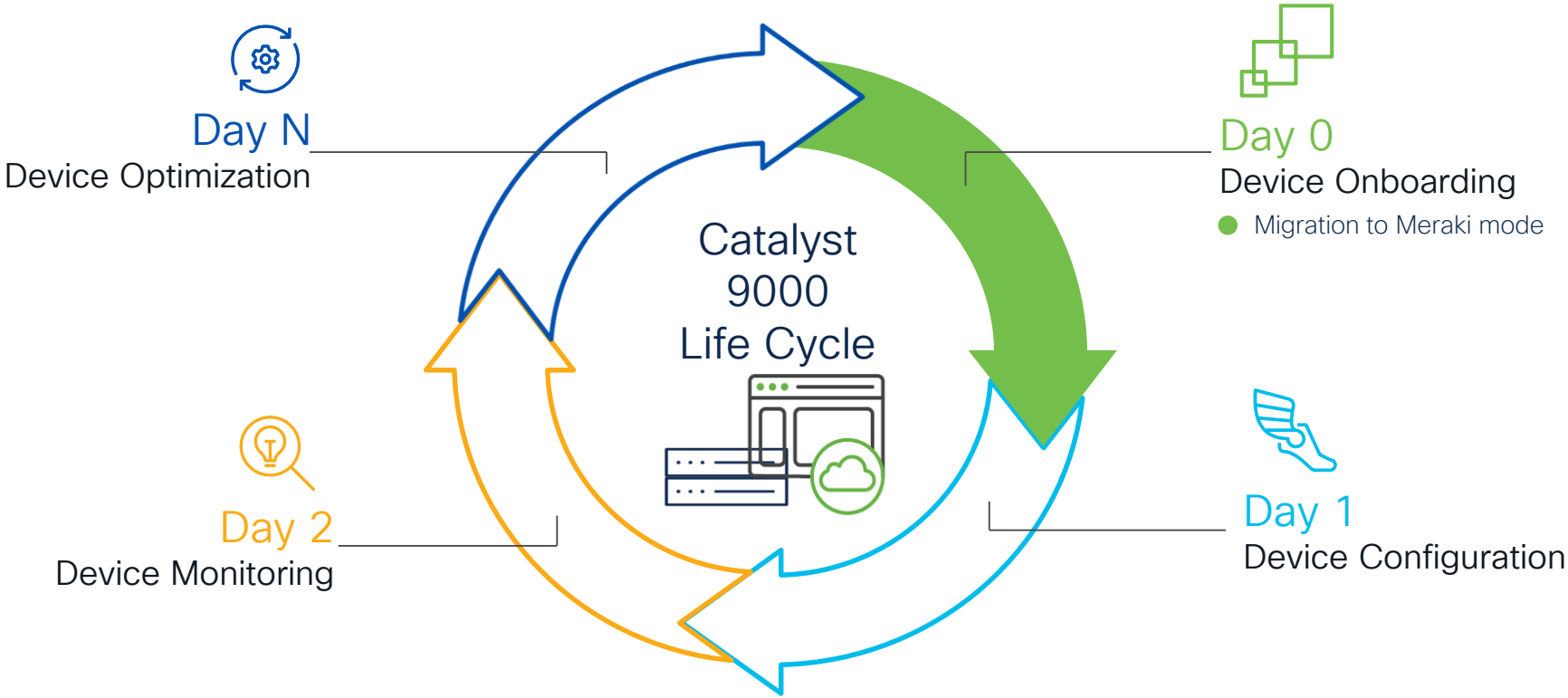
Network Devices

Application QoS Policies

Meraki Cloud Management



cisco Live!



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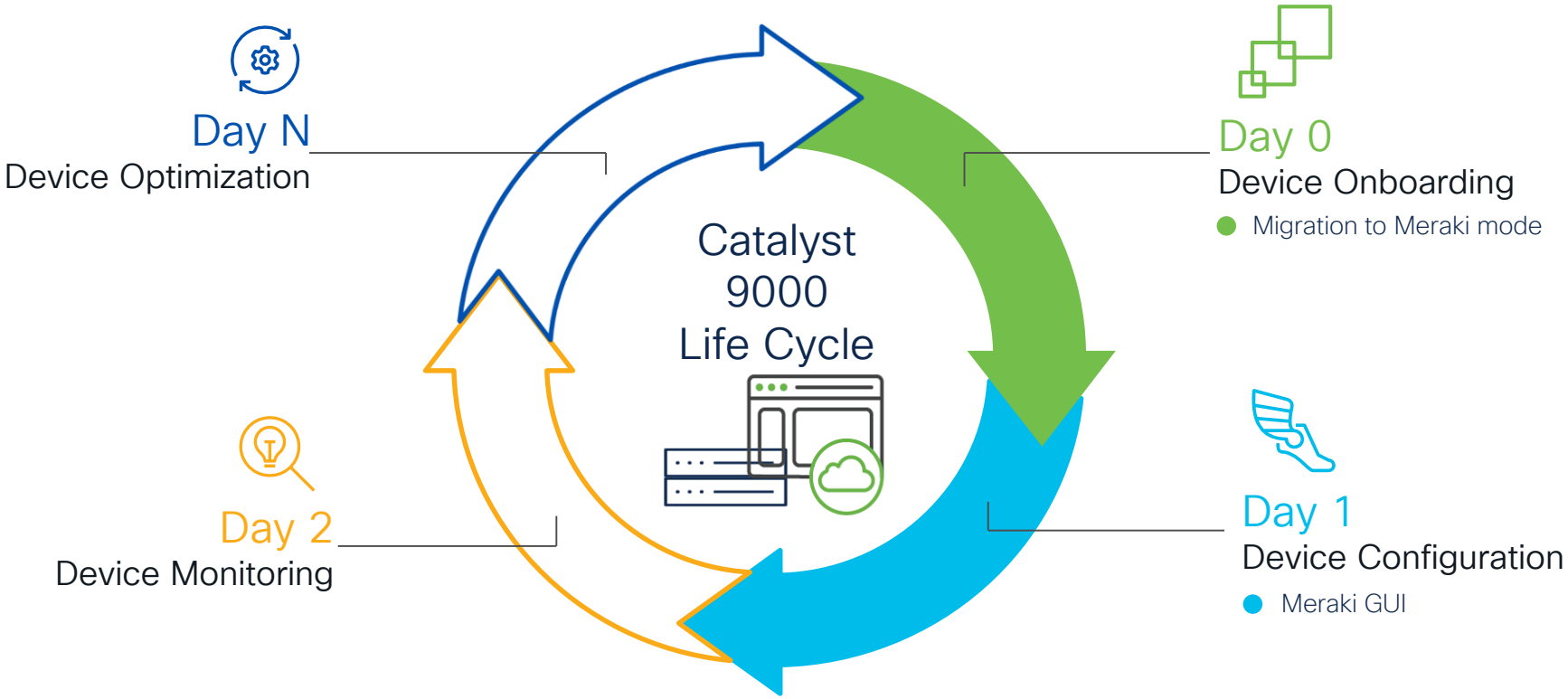
Switch#
Switch#
Switch#
Switch#
Switch#
Switch#
Switch#_
```

Secure Shell Xterm Zmodem ZOC2405_DMZ_TS0105.log



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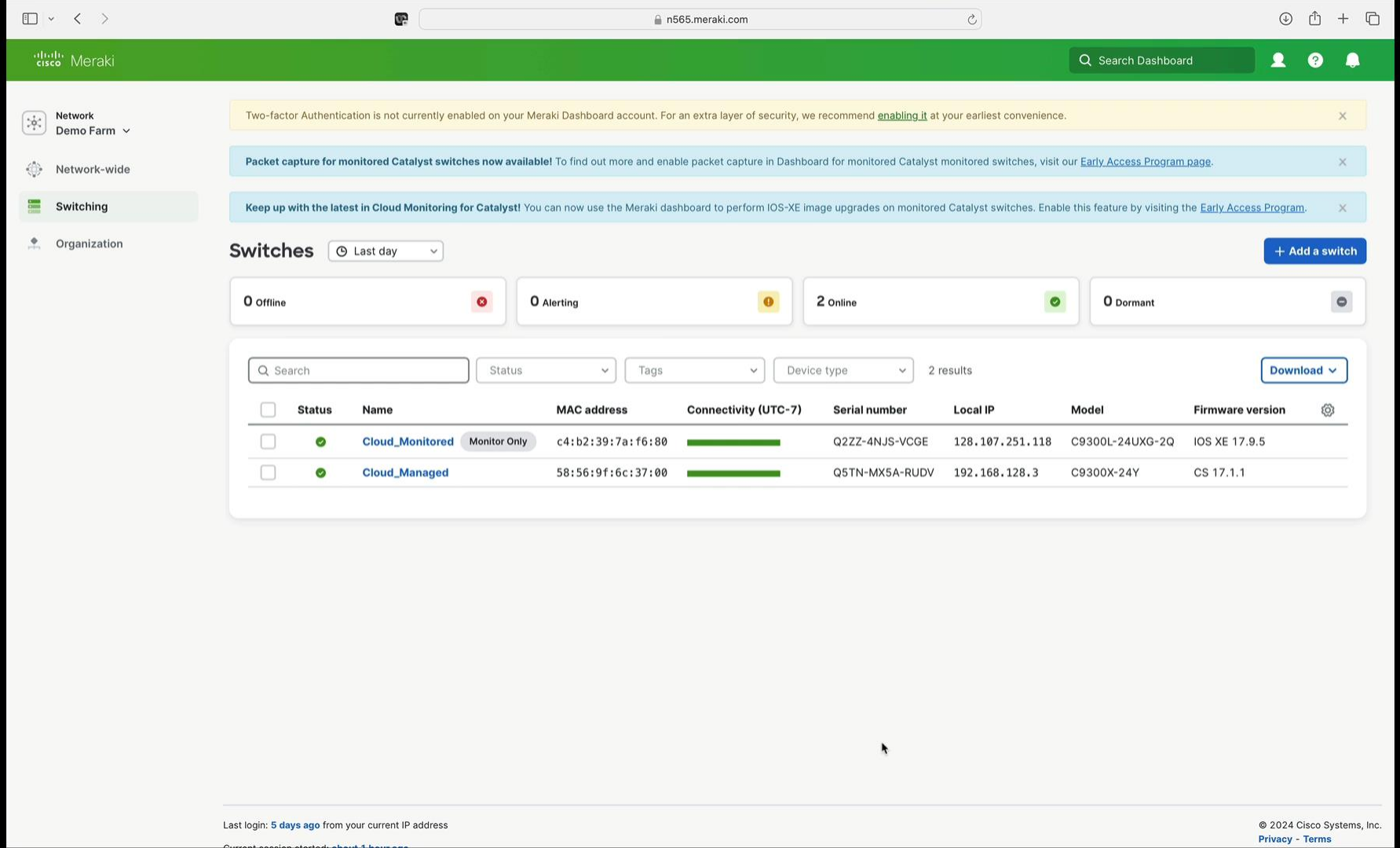
n565.meraki.com
Meraki
Search Dashboard
Network
Demo Farm
Network-wide
Switching
Organization
Two-factor Authentication is not currently enabled on your Meraki Dashboard account. For an extra layer of security, we recommend enabling it at your earliest convenience.
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Switches
Last day
+ Add a switch
0 Offline
0 Alerting
2 Online
0 Dormant
Search
Status
Tags
Device type
2 results
Download
Status
Name
MAC address
Connectivity (UTC-7)
Serial number
Local IP
Model
Firmware version
Cloud_Monitored
Monitor Only
c4:b2:39:7a:f6:80
Q2ZZ-4NJS-VCGE
128.107.251.118
C9300L-24UXG-2Q
IOS XE 17.9.5
Cloud_Managed
58:56:9f:6c:37:00
Q5TN-MX5A-RUDV
192.168.128.3
C9300X-24Y
CS 17.1.1
Last login: 5 days ago from your current IP address
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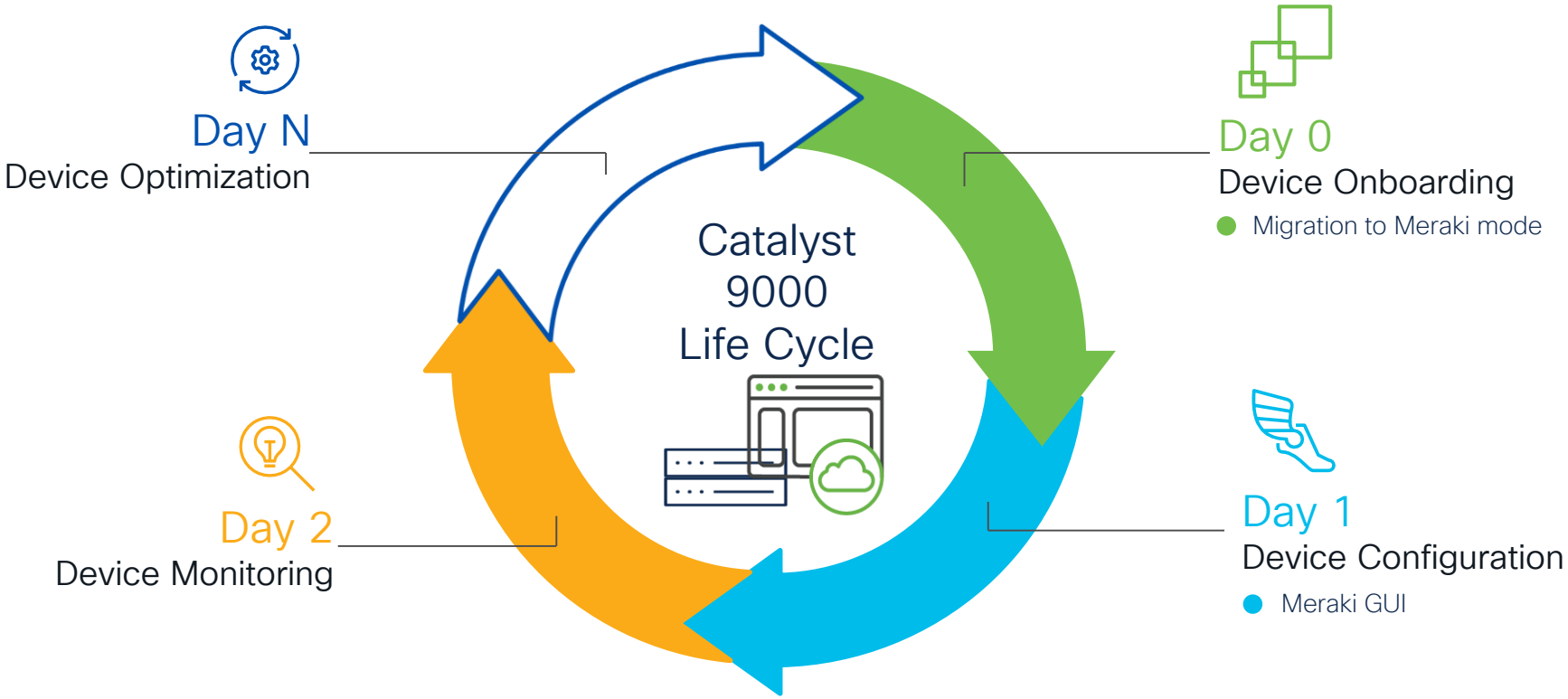

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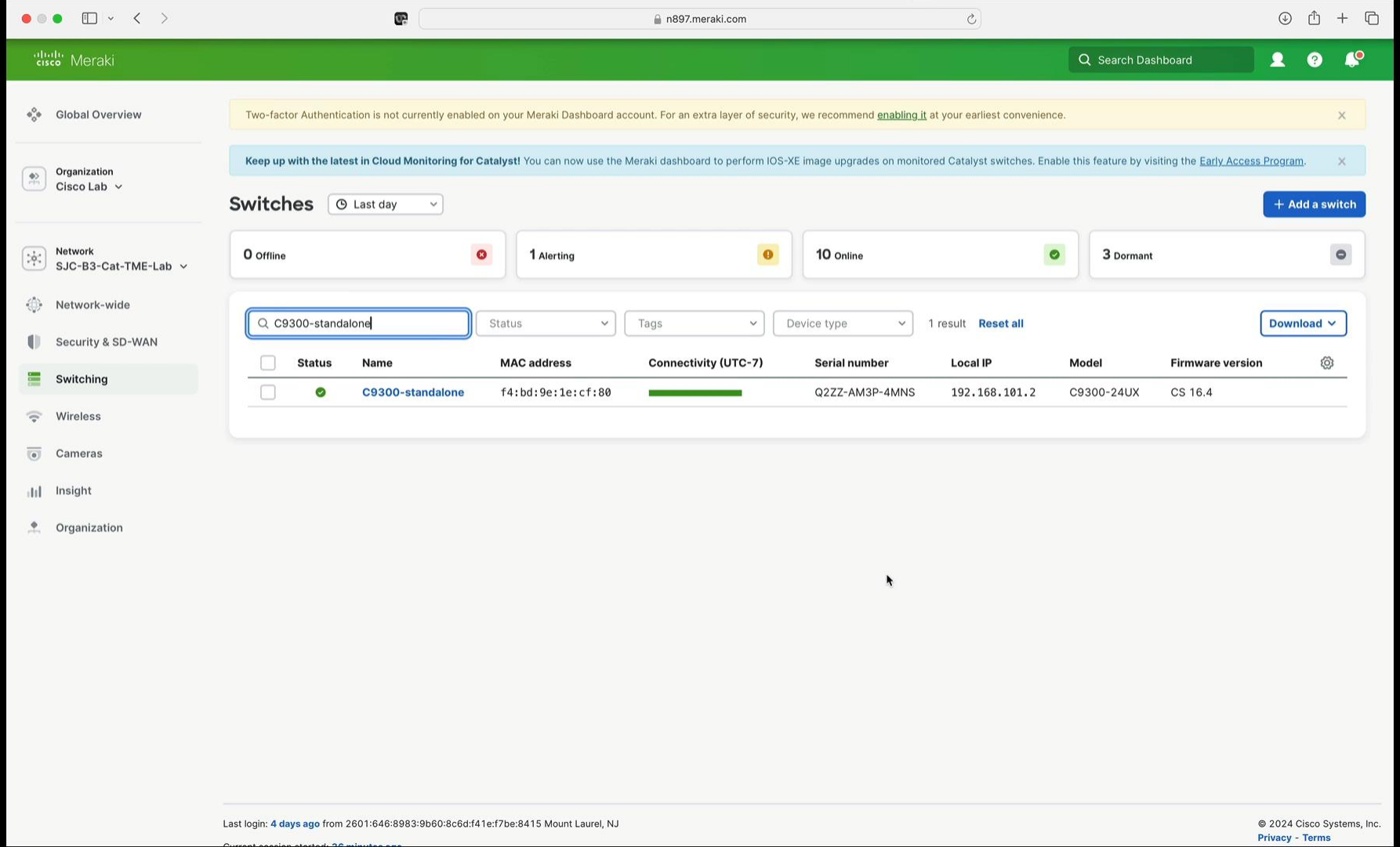
n897.meraki.com
Meraki
Search Dashboard
Global Overview
Organization
Cisco Lab
Network
SJC-B3-Cat-TME-Lab
Network-wide
Security & SD-WAN
Switching
Wireless
Cameras
Insight
Organization
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Switches
Last day
+ Add a switch
0 Offline
1 Alerting
10 Online
3 Dormant
C9300-standalone
Status
Tags
Device type
1 result
Reset all
Download
Status
Name
MAC address
Connectivity (UTC-7)
Serial number
Local IP
Model
Firmware version
C9300-standalone
f4:bd:9e:1e:cf:80
Q2ZZ-AM3P-4MNS
192.168.101.2
C9300-24UX
CS 16.4
Last login: 4 days ago from 2601:646:8983:9b60:8c6d:f41e:f7be:8415 Mount Laurel, NJ
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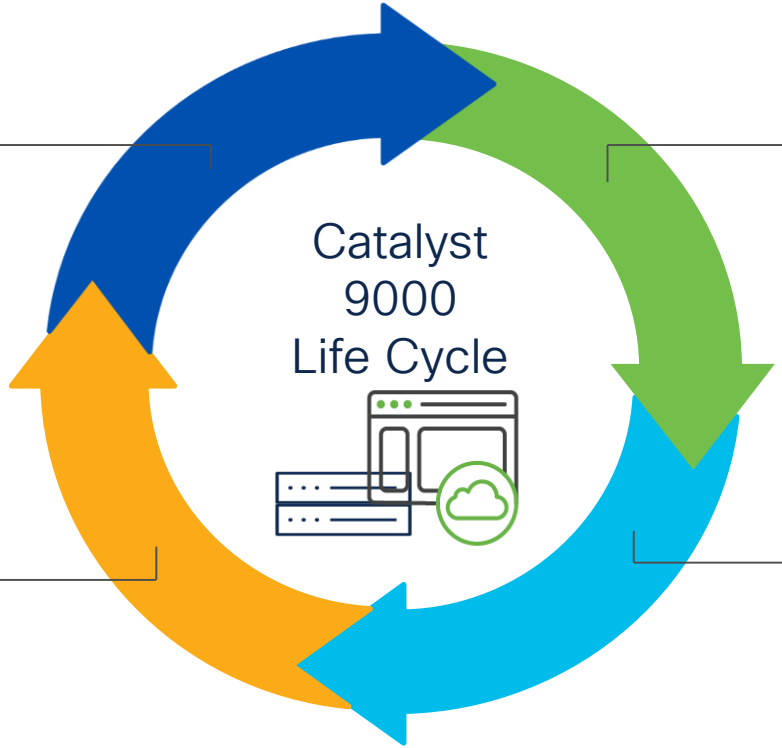

Day N
Device Optimization
- Network + Staged Upgrades

Day 0
Device Onboarding
- Migration to Meraki mode

Day 2
Device Monitoring

Day 1
Device Configuration
- Meraki GUI

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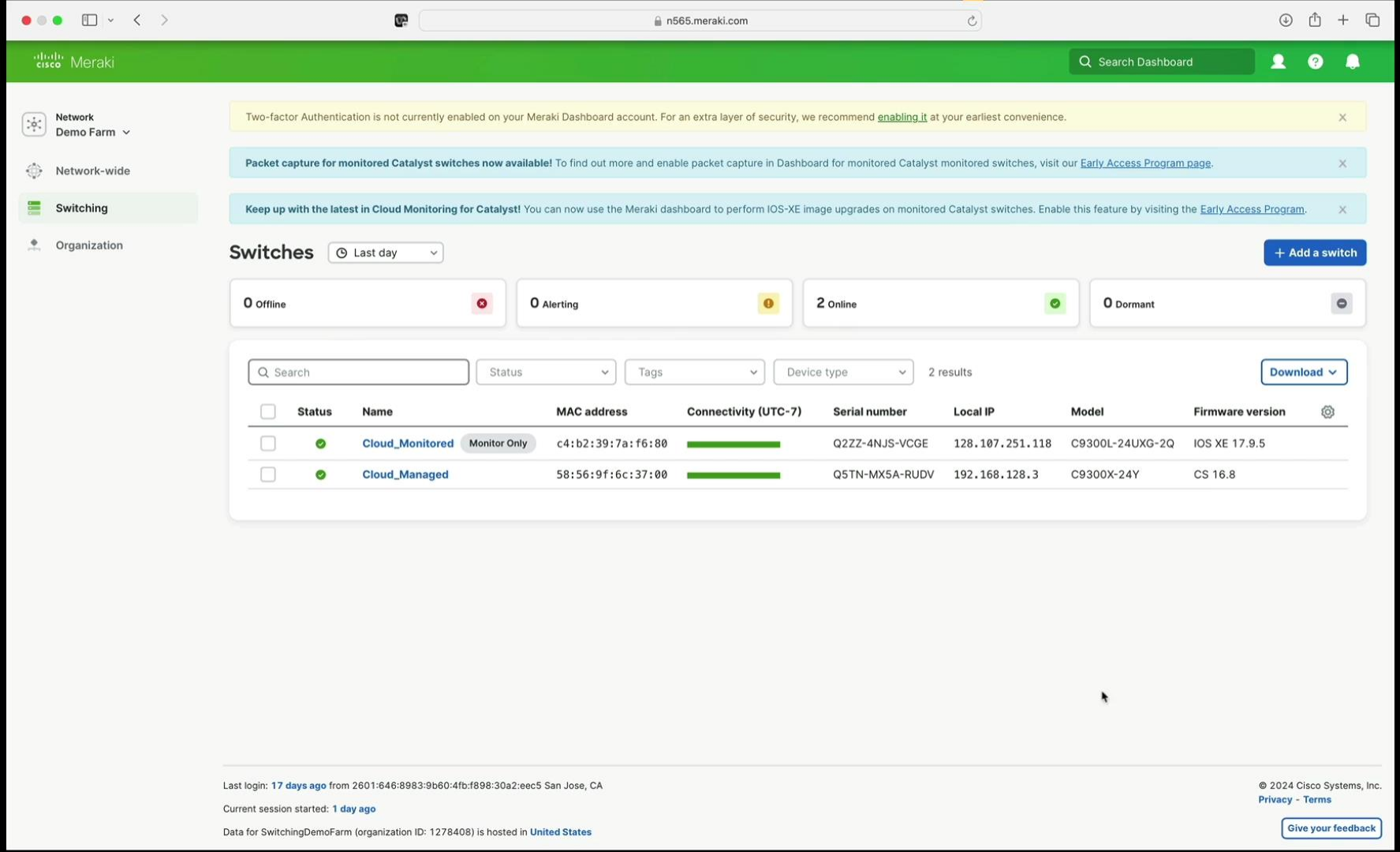
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Demo Farm
Network-wide
Switching
Organization
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Last day
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0 Offline
0 Alerting
2 Online
0 Dormant
Search
Status
Tags
Device type
2 results
Download
Status
Name
MAC address
Connectivity (UTC-7)
Serial number
Local IP
Model
Firmware version
Cloud_Monitored
Monitor Only
c4:b2:39:7a:f6:80
Q2ZZ-4NJS-VCGE
128.107.251.118
C9300L-24UXG-2Q
IOS XE 17.9.5
Cloud_Managed
58:56:9f:6c:37:00
Q5TN-MX5A-RUDV
192.168.128.3
C9300X-24Y
CS 16.8
Last login: 17 days ago from 2601:646:8983:9b60:4fb:f898:30a2:eec5 San Jose, CA
Current session started: 1 day ago
Data for SwitchingDemoFarm (organization ID: 1278408) is hosted in United States
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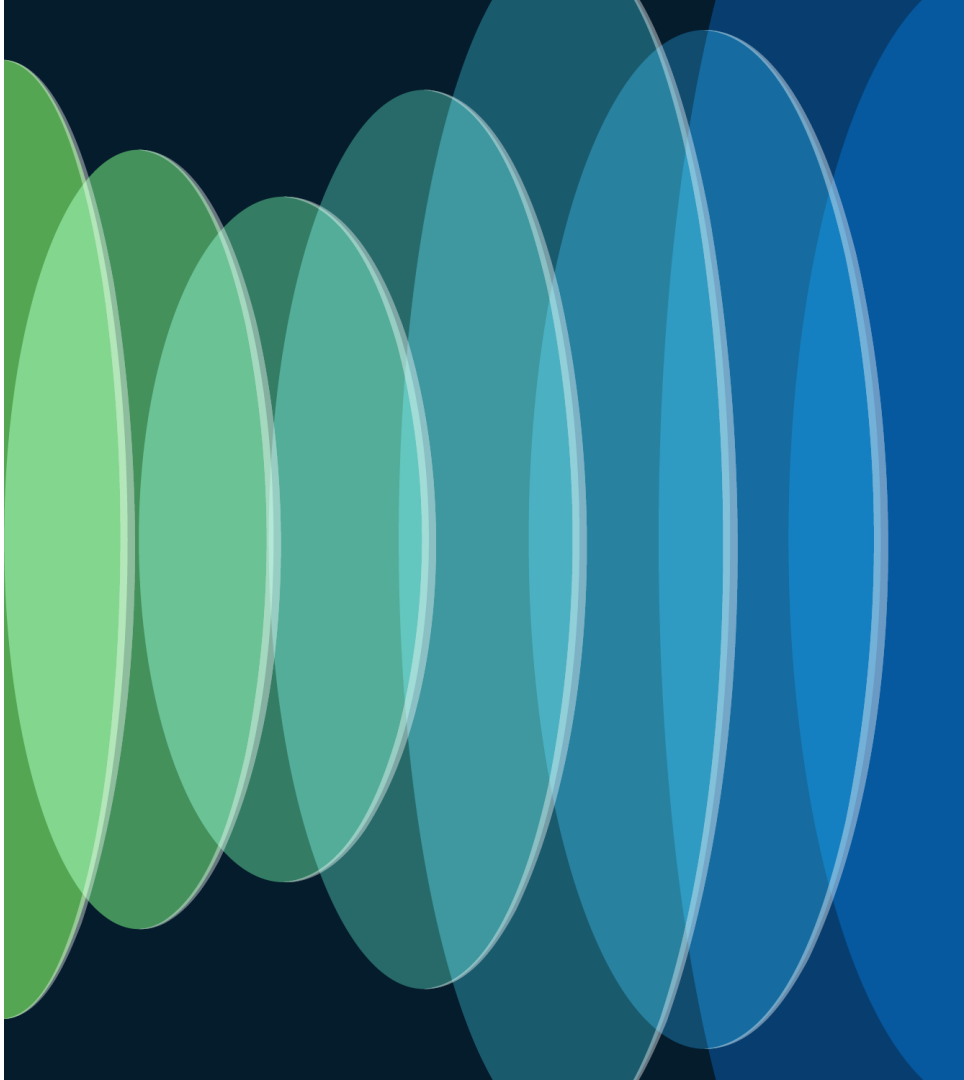
Give your feedback

Meraki Cloud Monitoring



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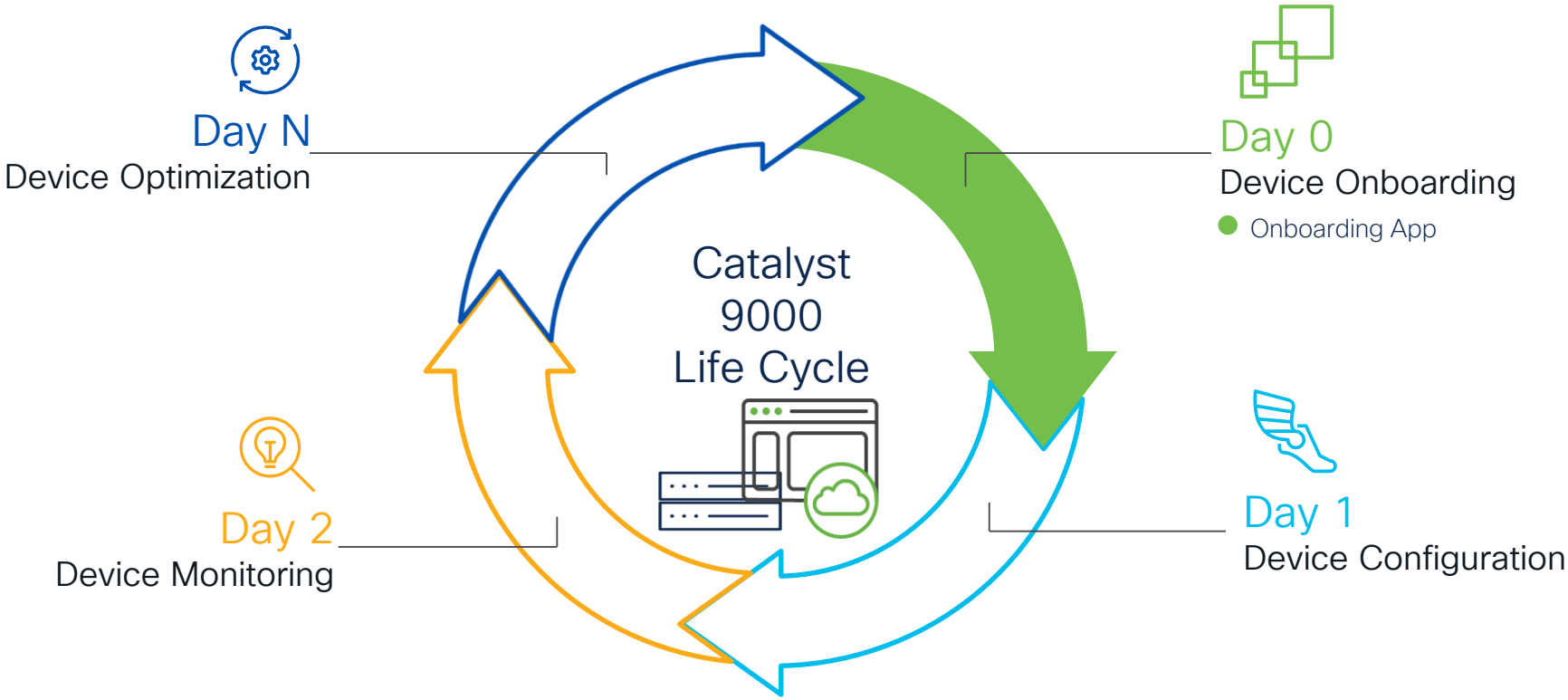

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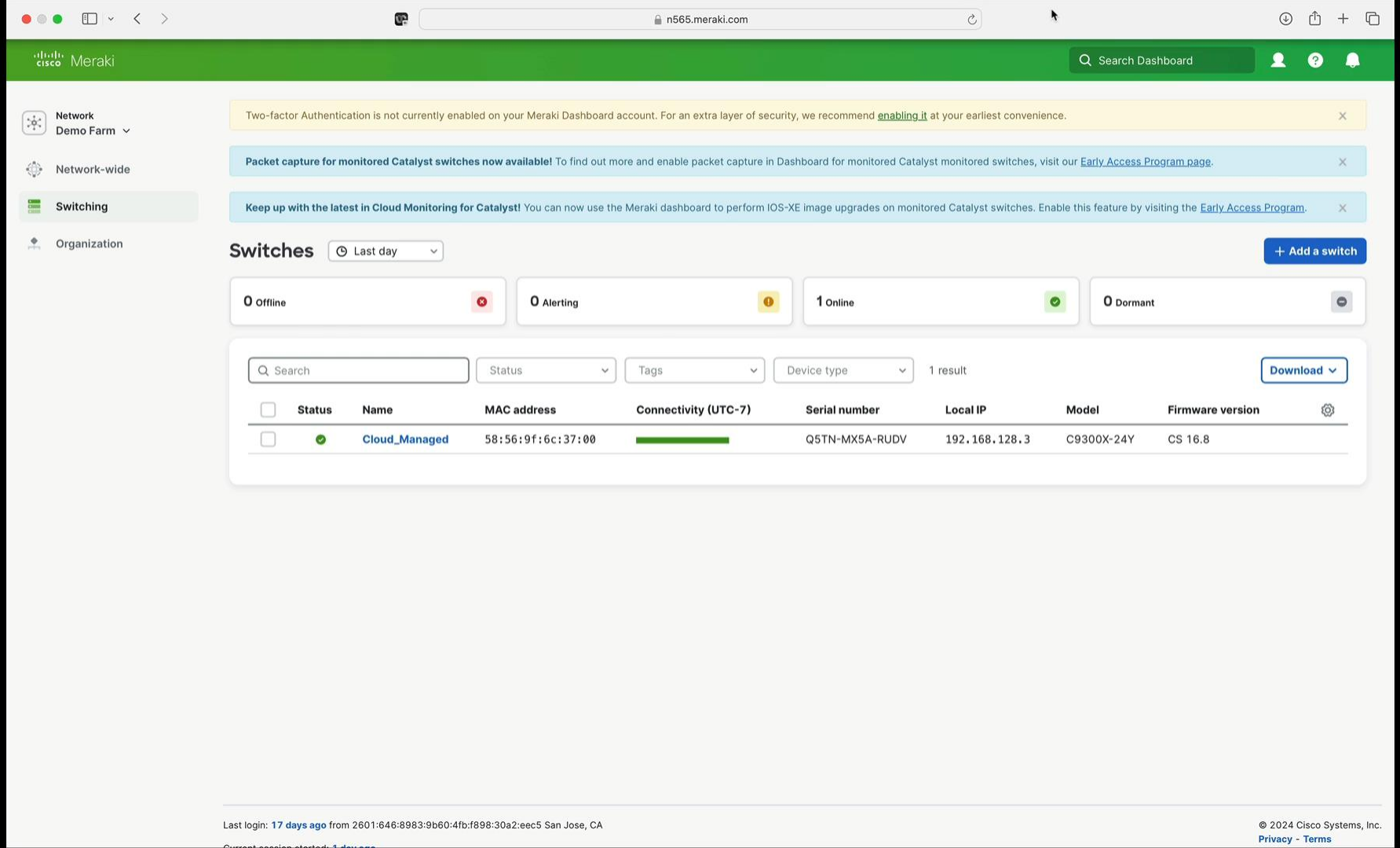
n565.meraki.com
Meraki
Search Dashboard
Network
Demo Farm
Network-wide
Switching
Organization
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Switches
Last day
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0 Offline
0 Alerting
1 Online
0 Dormant
Search
Status
Tags
Device type
1 result
Download
Status
Name
MAC address
Connectivity (UTC-7)
Serial number
Local IP
Model
Firmware version
Cloud_Managed
58:56:9f:6c:37:00
Q5TN-MX5A-RUDV
192.168.128.3
C9300X-24Y
CS 16.8
Last login: 17 days ago from 2601:646:8983:9b60:4fb:f898:30a2:eec5 San Jose, CA
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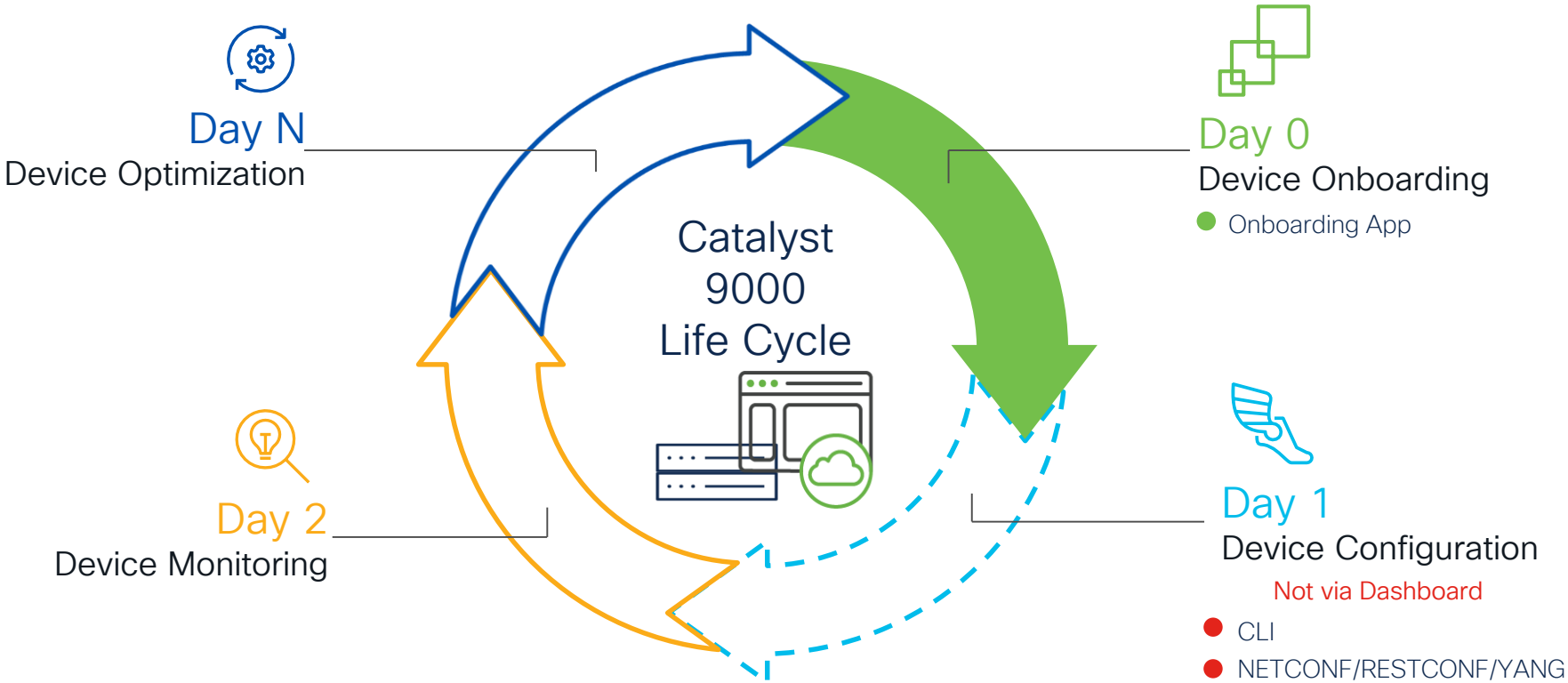

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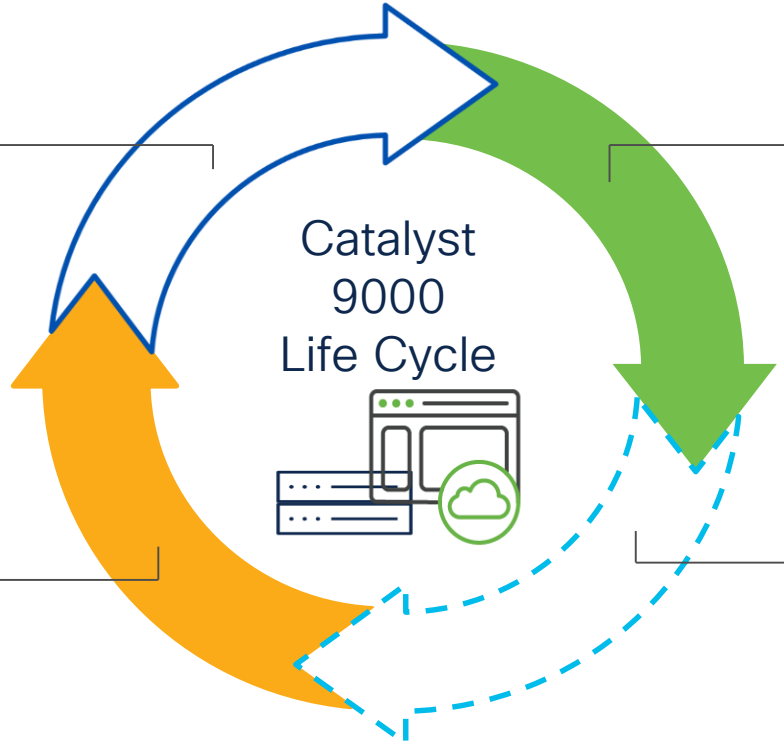

Day N
Device Optimization

Day 0
Device Onboarding
- Onboarding App

Day 2
Device Monitoring
- Advanced Topology View
- Troubleshooting Console
- Packet Captures
- Config History & Diff

Day 1
Device Configuration

Not via Dashboard
- CLI
- NETCONF/RESTCONF/YANG

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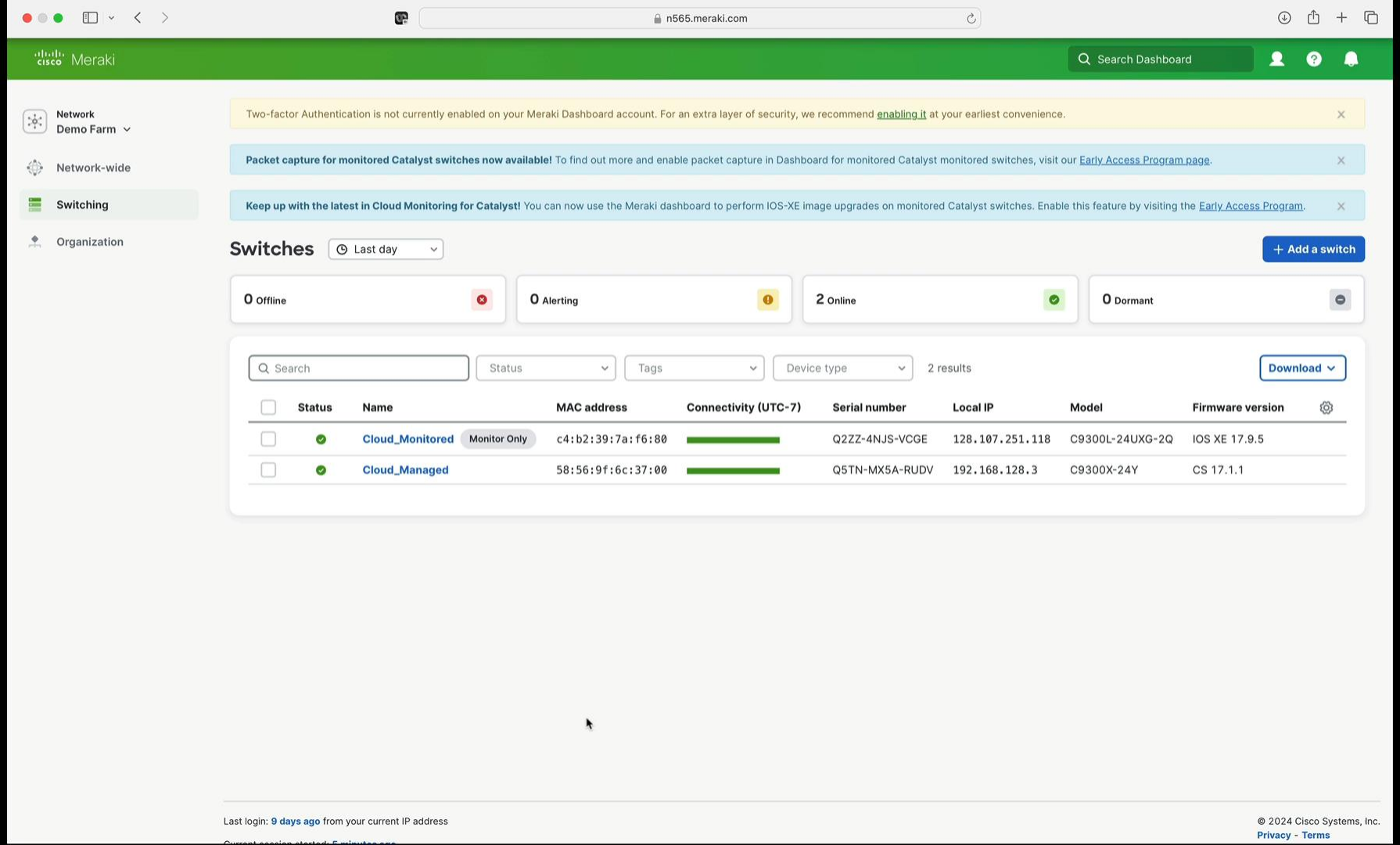
n565.meraki.com
Meraki
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Network
Demo Farm
Network-wide
Switching
Organization
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Switches
Last day
Add a switch
0 Offline
0 Alerting
2 Online
0 Dormant
Search
Status
Tags
Device type
2 results
Download
Status
Name
MAC address
Connectivity (UTC-7)
Serial number
Local IP
Model
Firmware version
Cloud_Monitored
Monitor Only
c4:b2:39:7a:f6:80
Q2ZZ-4NJS-VCGE
128.107.251.118
C9300L-24UXG-2Q
IOS XE 17.9.5
Cloud_Managed
58:56:9f:6c:37:00
Q5TN-MX5A-RUDV
192.168.128.3
C9300X-24Y
CS 17.1.1
Last login: 9 days ago from your current IP address
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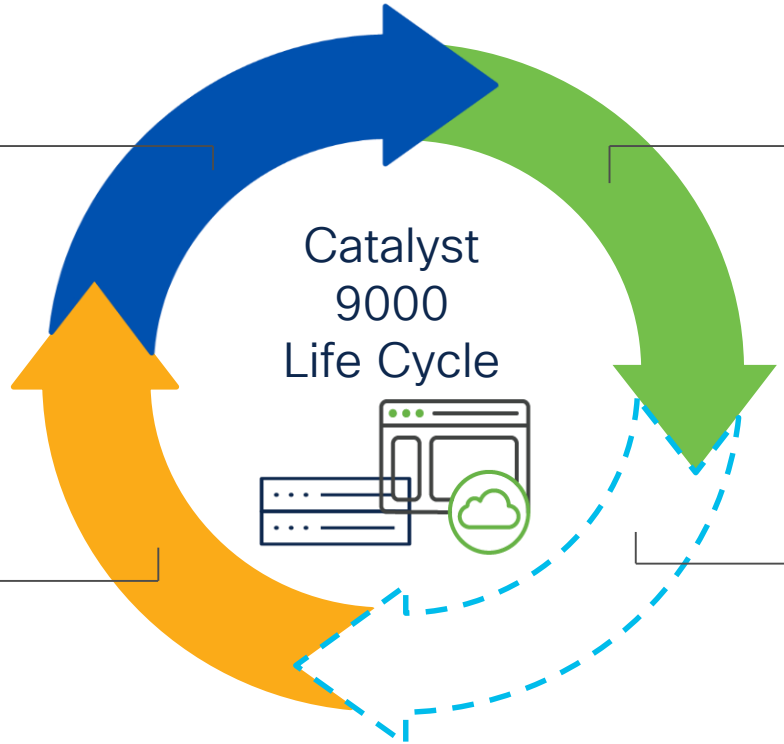

Day N
Device Optimization
- IOS XE Image Upgrade

Day 0
Device Onboarding
- Onboarding App

Day 2
Device Monitoring
- Enhanced Topology
- Troubleshooting Console
- Packet Captures
- Config History & Diff

Day 1
Device Configuration

Not via Dashboard
- CLI
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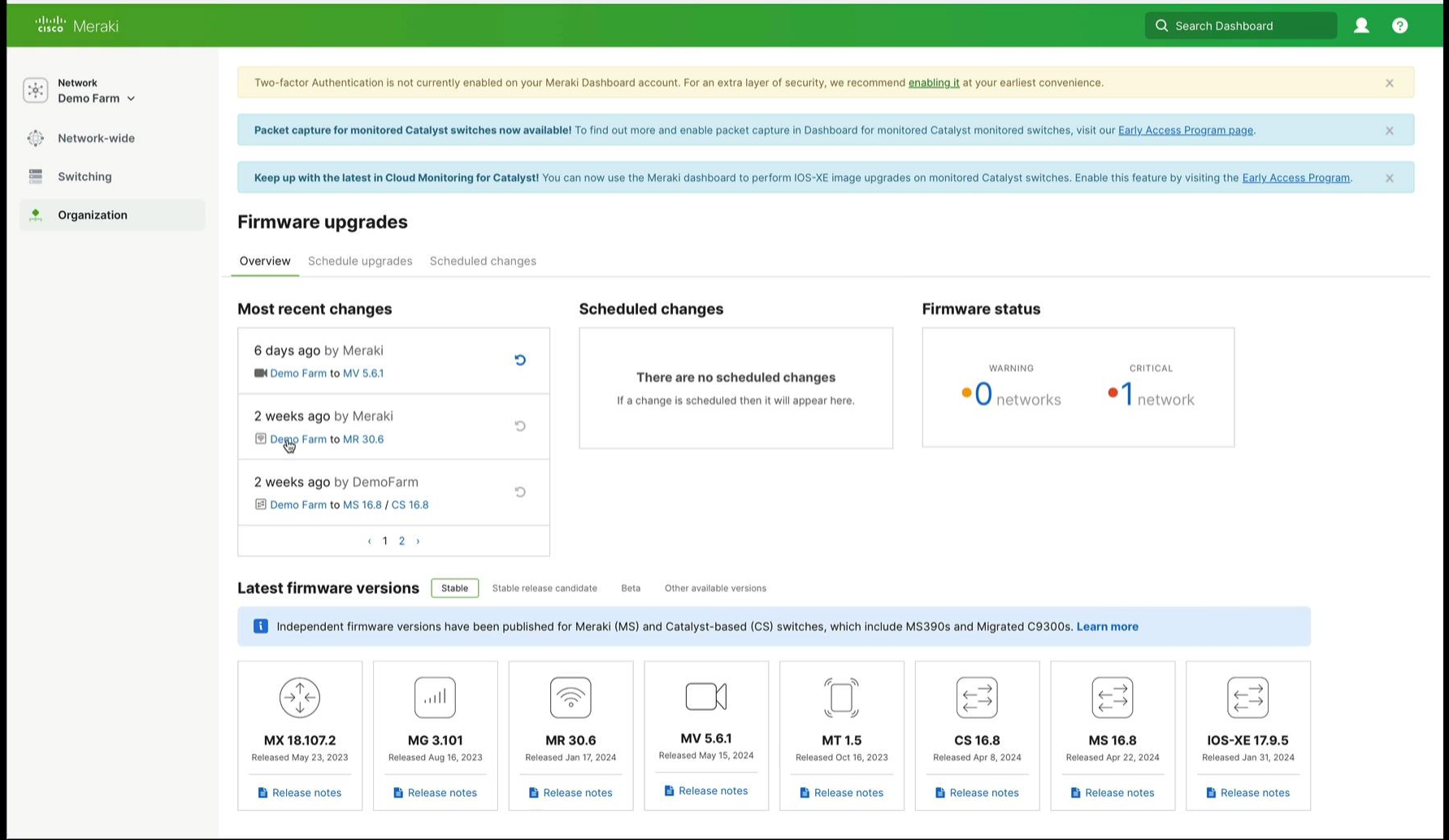
n565.meraki.com
Meraki
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Demo Farm
Network-wide
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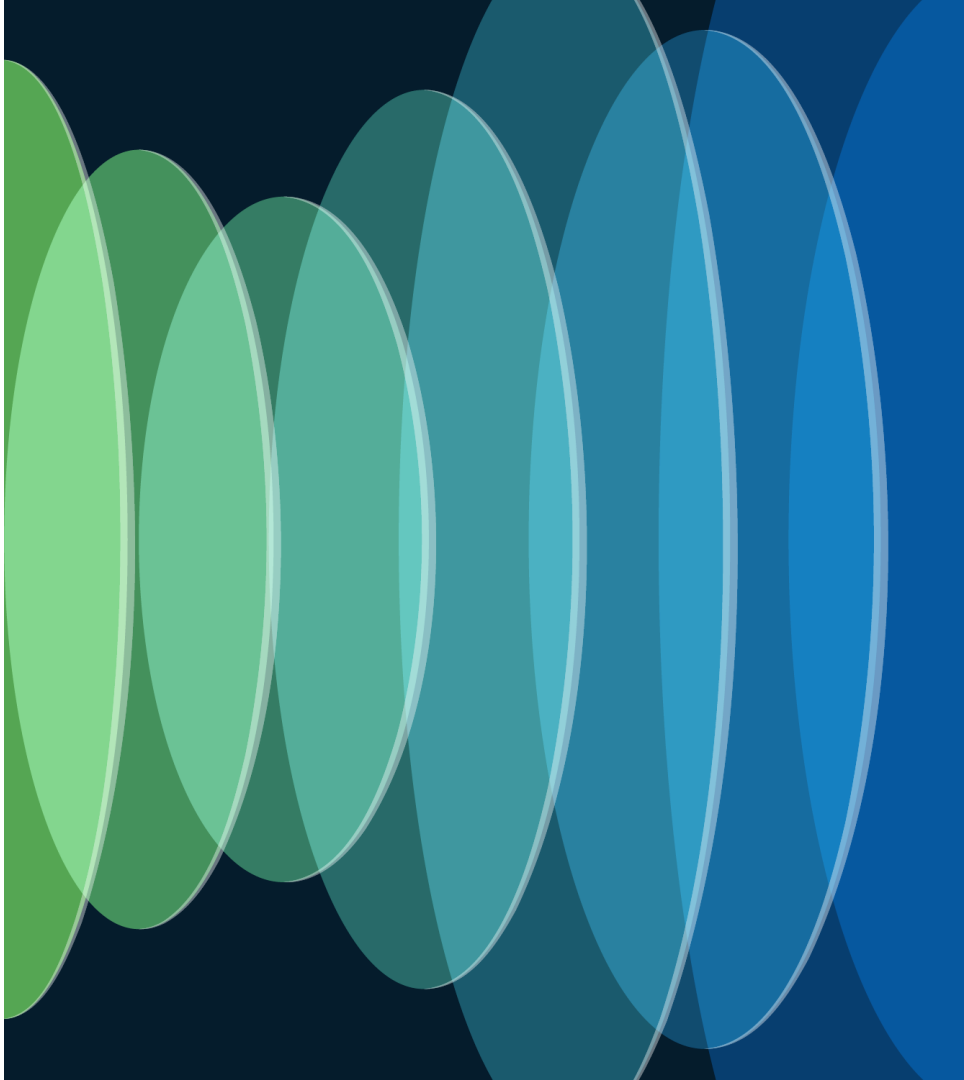
Firmware upgrades
Overview
Schedule upgrades
Scheduled changes
Most recent changes
6 days ago by Meraki
Demo Farm to MV 5.6.1
2 weeks ago by Meraki
Demo Farm to MR 30.6
2 weeks ago by DemoFarm
Demo Farm to MS 16.8 / CS 16.8
‹ 1 2 ›
Scheduled changes
There are no scheduled changes
If a change is scheduled then it will appear here.
Firmware status
WARNING
0 networks
CRITICAL
1 network
Latest firmware versions
Stable
Stable release candidate
Beta
Other available versions
Independent firmware versions have been published for Meraki (MS) and Catalyst-based (CS) switches, which include MS390s and Migrated C9300s. Learn more
MX 18.107.2
Released May 23, 2023
Release notes
MG 3.101
Released Aug 16, 2023
Release notes
MR 30.6
Released Jan 17, 2024
Release notes
MV 5.6.1
Released May 15, 2024
Release notes
MT 1.5
Released Oct 16, 2023
Release notes
CS 16.8
Released Apr 8, 2024
Release notes
MS 16.8
Released Apr 22, 2024
Release notes
IOS-XE 17.9.5
Released Jan 31, 2024
Release notes

Customer Deployment Use Cases



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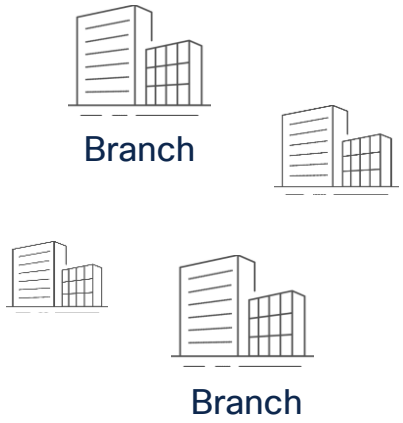
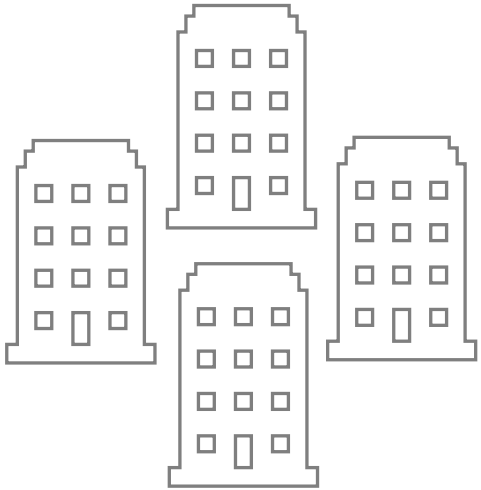
Network Challenges

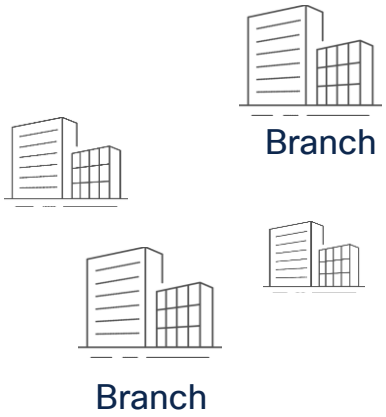
Scalability

Feature Support





HQ/Campus



Homogenous Network

Network Assurance

IT Resources/Cost

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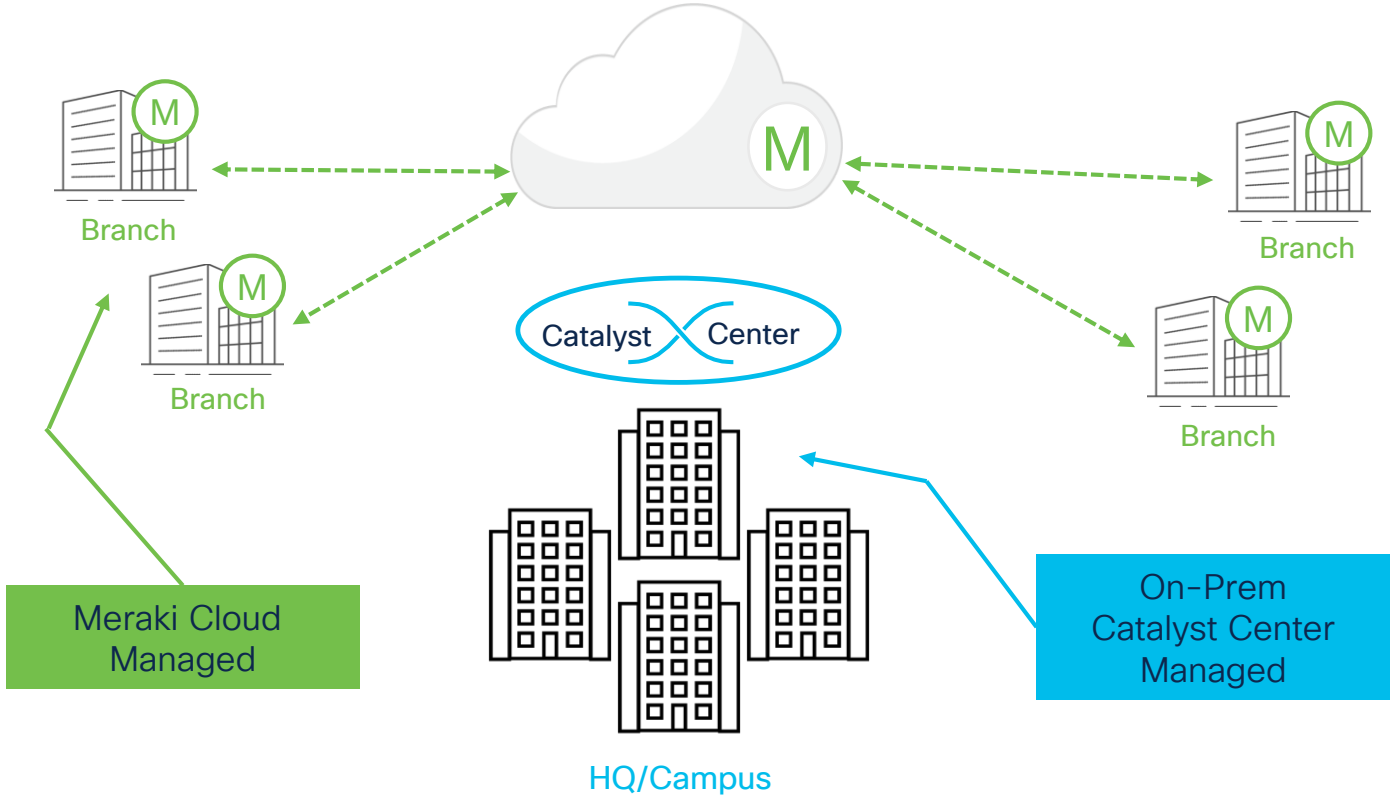
Catalyst Campus with Meraki Branches



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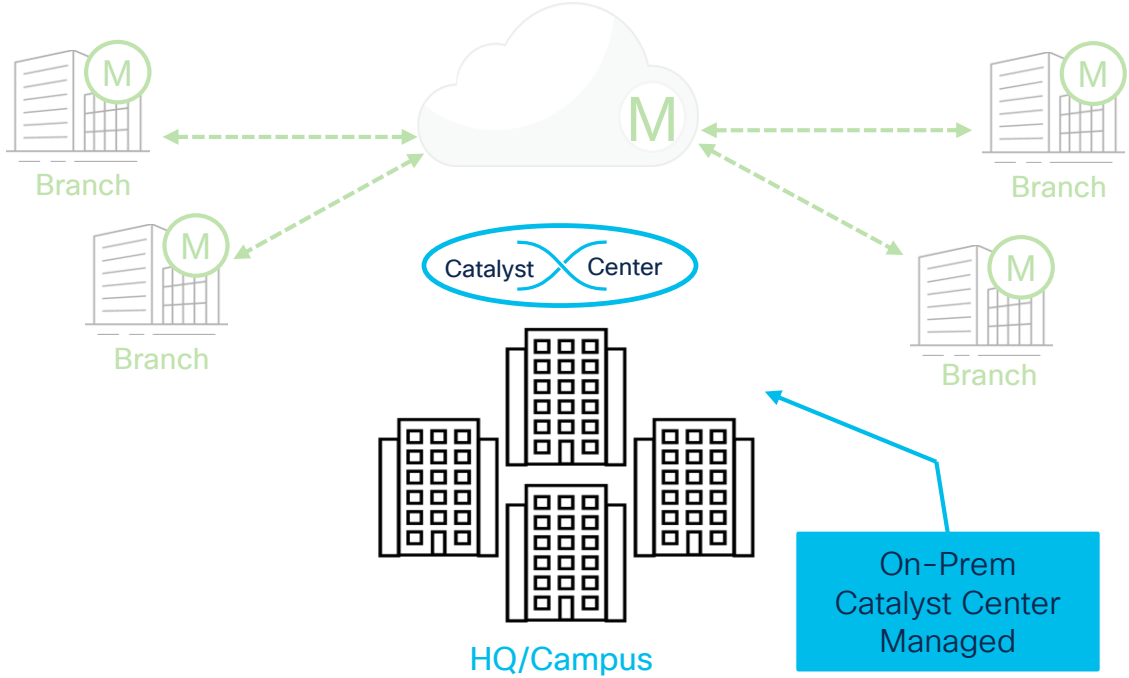
Catalyst Campus with Meraki Branches



Advanced Architectures
SD-Access Fabric (SDA - LISP or BGP EVPN), MPLS

Sophisticated Use Cases
AVB/PTP, SD-Bonjour

Advanced Security
IPsec, AI Endpoint Analytics, AI Trust analytics

Feature Richness and customization

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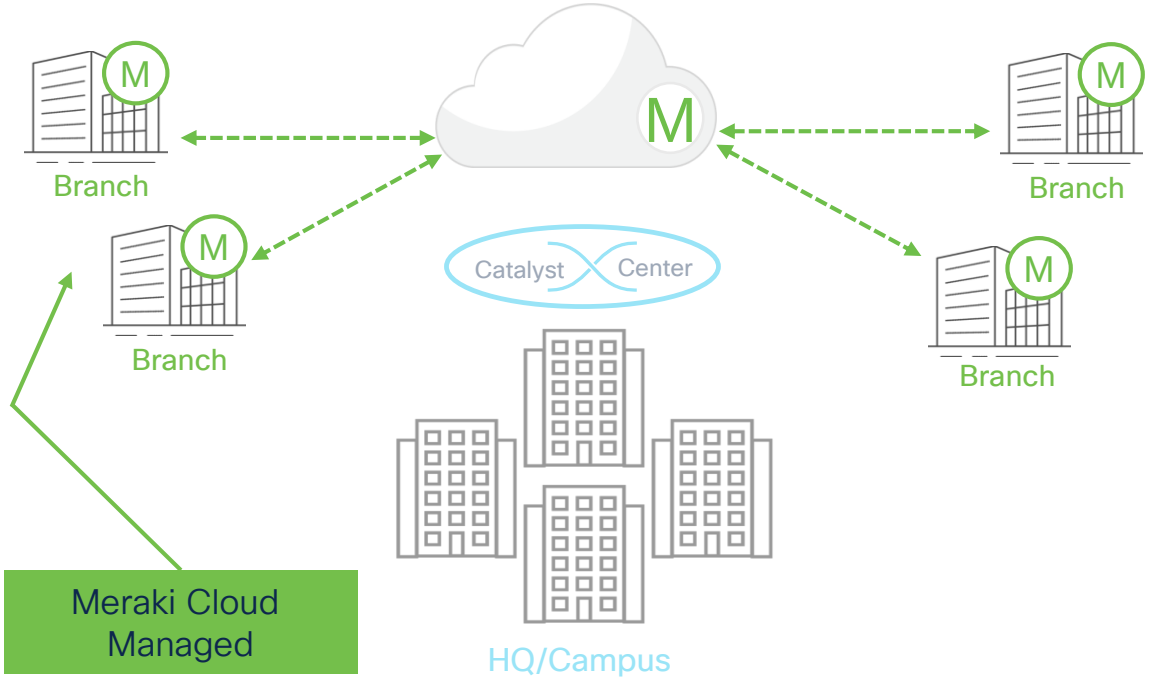
Catalyst Campus with Meraki Branches



Operational Simplicity
turnkey zero-touch provisioning, seamless image upgrades, remote troubleshooting

Integrated Network-wide Assurance

Powerful with Simplicity
Adaptive Policy/SGT segmentation at scale with easy consumption

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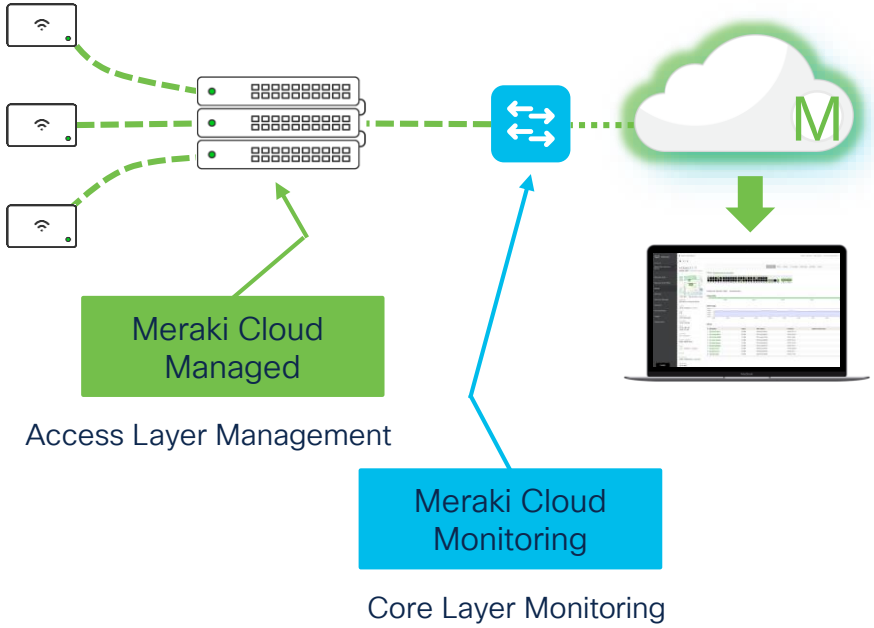
Embracing Hybrid Tiered Architecture with Meraki



Leverage agile cloud operations with Rich Catalyst features

- **Meraki Dashboard feature:**
  - Image Upgrades, Config backup/diff, Device/Client Health
  - Cloud-enabled troubleshooting: Packet Captures, 'show' commands in CLI terminal, Ping/Traceroute
  - Sustainability options: Power consumption visibility
- **Enhanced IOS XE feature set**
  - StackWise Virtual, QoS etc.

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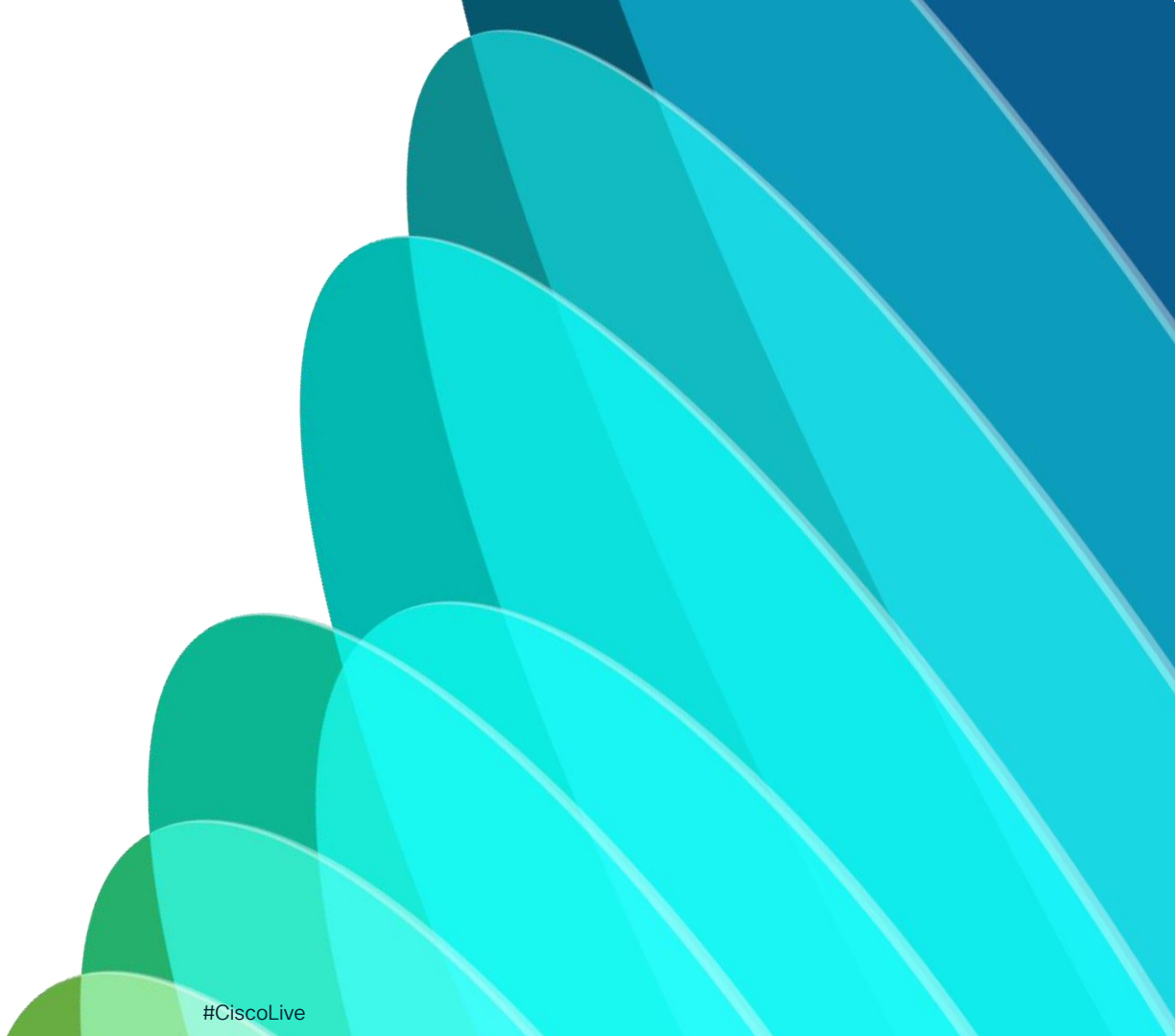
The bridge to possible

Thank you



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