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1. Find this session in the Cisco Live Mobile App

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Webex spaces will be moderated
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https://ciscolive.ciscoevents.com/ciscolivebot/#BRKMER-1005

Agenda

- What is Zero Trust?

- Managed Endpoints

- Secure Users

- Secure Endpoints

- Secure Networks

Do We Have Enough Zero Trust?

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#1723 687

Passcode: **ciscomdm**

What is Zero Trust?

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The old security model no longer works

- ▸ Businesses competing as ecosystems

- ▸ Everyone is an insider

- ▸ Hybrid work is here to stay

It's segmentation

It's ZTNA

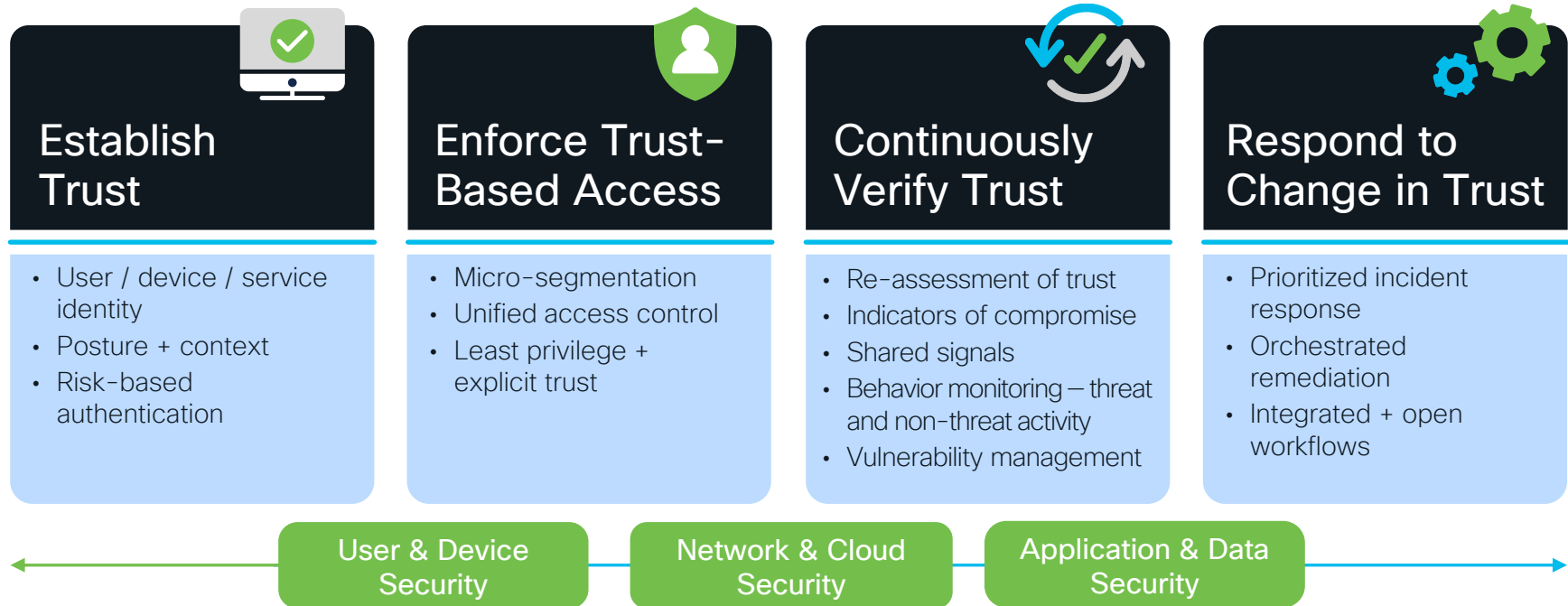It's endpoint security

It's firewall

It's identity

Zero Trust means different things to different people
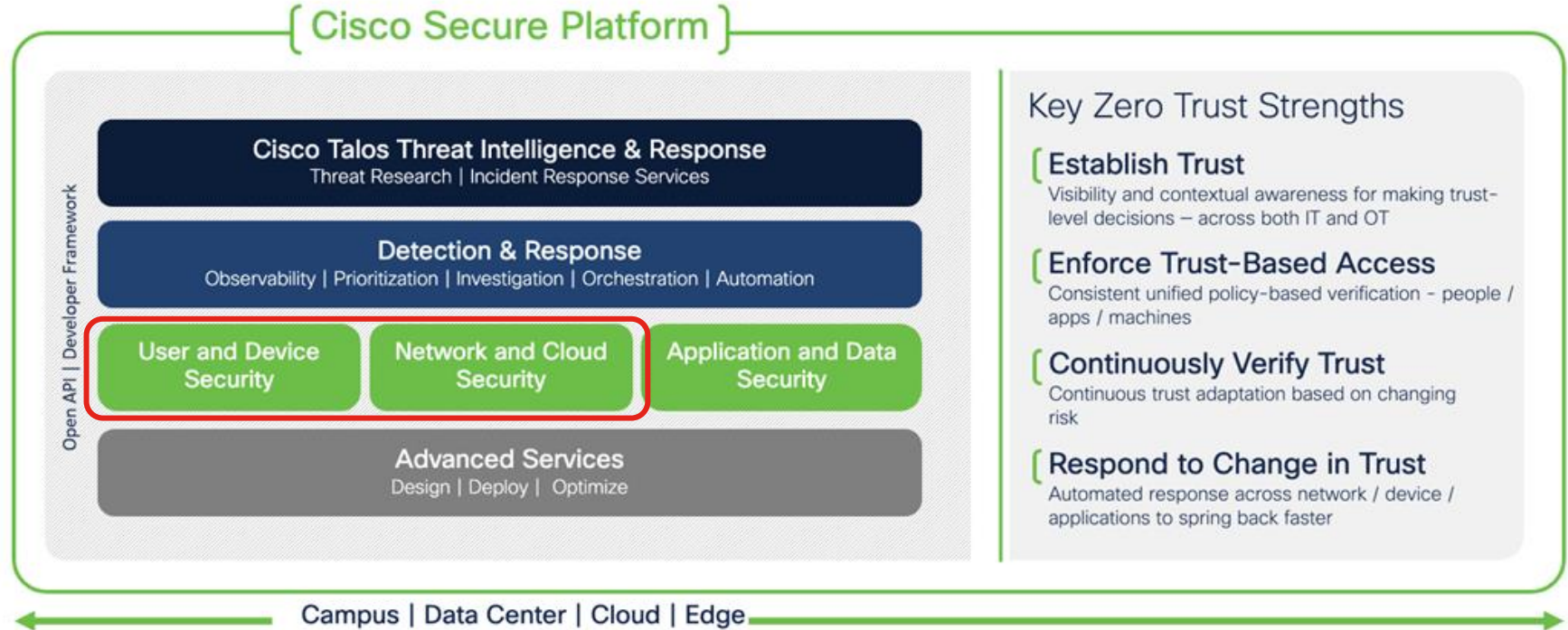
Zero Trust principles

▶ Never assume trust

▶ Always verify
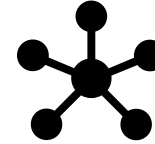
▶ Enforce least privilege

Cisco Zero Trust Architecture

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Cisco's Zero Trust Capabilities

Establish Trust

- User / device / service identity
- Posture + context
- Risk-based authentication

Enforce Trust-Based Access

- Micro-segmentation
- Unified access control
- Least privilege + explicit trust

Continuously Verify Trust

- Re-assessment of trust
- Indicators of compromise
- Shared signals
- Behavior monitoring — threat and non-threat activity
- Vulnerability management

Respond to Change in Trust

- Prioritized incident response
- Orchestrated remediation
- Integrated + open workflows

User & Device Security | Network & Cloud Security | Application & Data Security
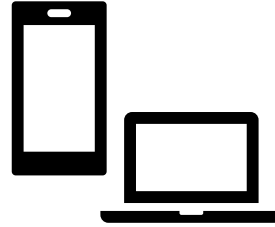
Cisco Zero Trust Framework

Endpoints: A Foundation for Zero Trust

Secure Users

Secure Endpoints

Secure Networks

Managed Endpoints with Meraki Systems Manager

How Secure Are Your Networks and Endpoints?

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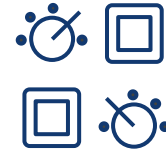Passcode: **ciscomdm**

Managed Endpoints

Endpoint Trust: Secure Devices Intelligently

Seamless provisioning
and enrollment

Dynamic policy
adjustment

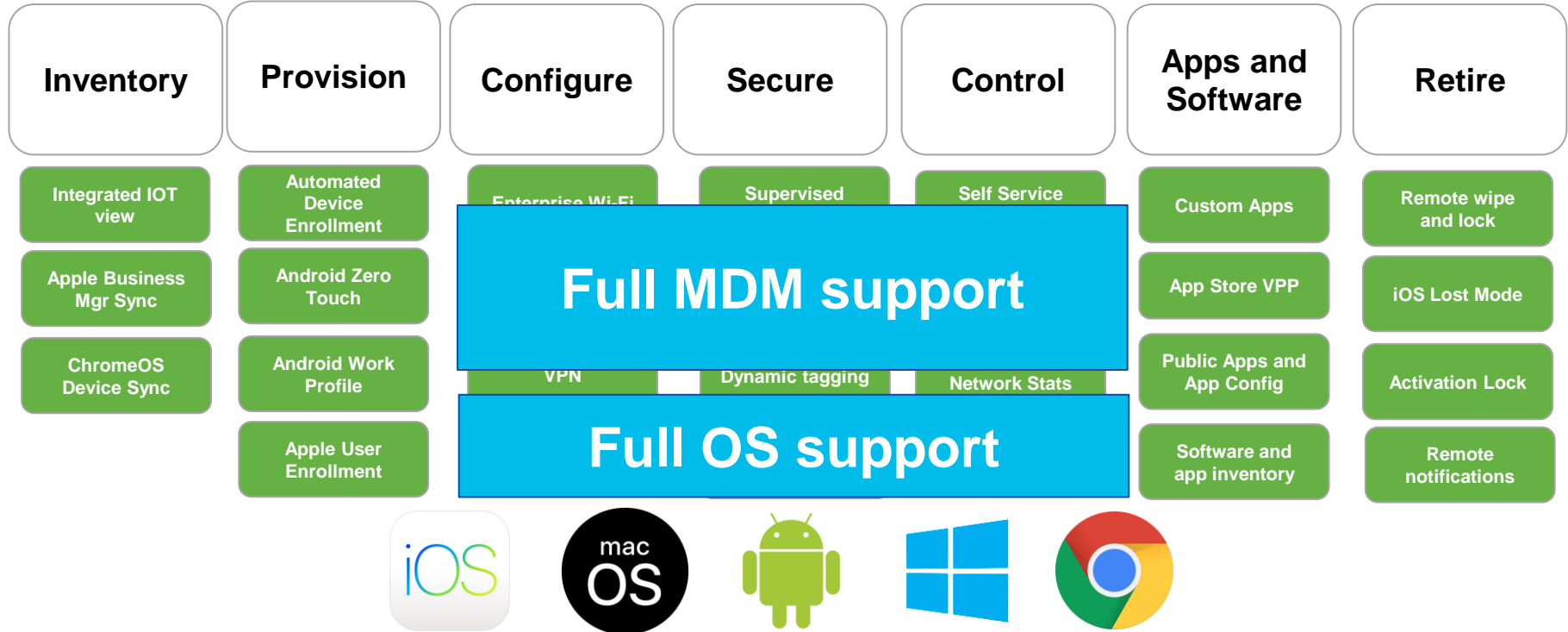**Enforce/prevent**
OS & app updates

Enforce **Data
encryption**

Full remote
control

Automatic **quarantine &
remediation**

Endpoint Trust: with MDM

Inventory	Provision	Configure	Secure	Control	Apps and Software	Retire
Integrated IOT view	Automated Device Enrollment	Enterprise Wi-Fi	Supervised	Self Service	Custom Apps	Remote wipe and lock
Apple Business Mgr Sync	Android Zero Touch				App Store VPP	iOS Lost Mode
ChromeOS Device Sync	Android Work Profile	VPN	Dynamic tagging	Network Stats	Public Apps and App Config	Activation Lock
	Apple User Enrollment				Software and app inventory	Remote notifications

Full MDM support

Full OS support

Demo: Dashboard

Bridge cloud and network security

DEPLOY & CONFIGURE CISCO SECURITY

Trusted endpoint

Device posture

Deploy & secure

SM

**AUTOMATE
SIMPLIFY
SECURE**
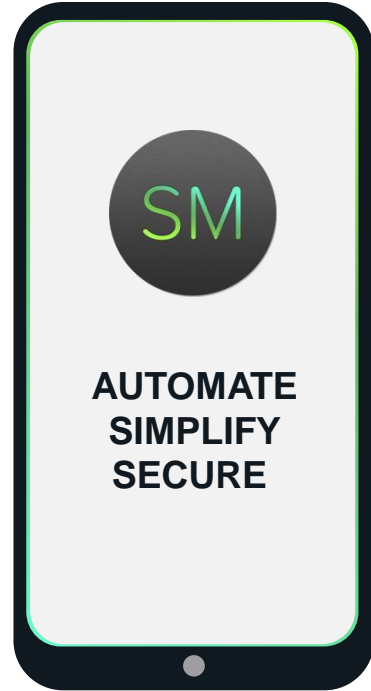
ZERO TRUST NETWORK ACCESS

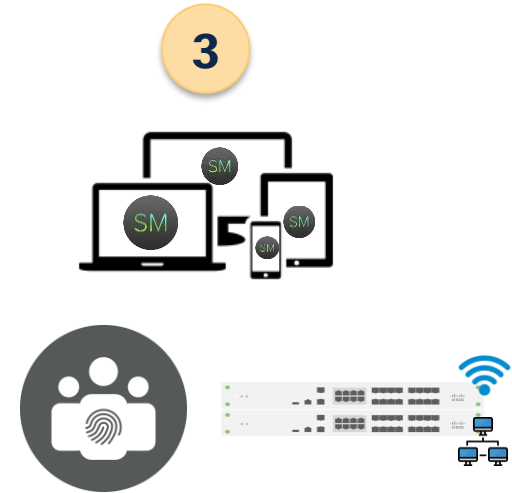Sentry Wi-Fi &
Trusted Access

Sentry VPN

Sentry Policies

Secure Users

Secure Users
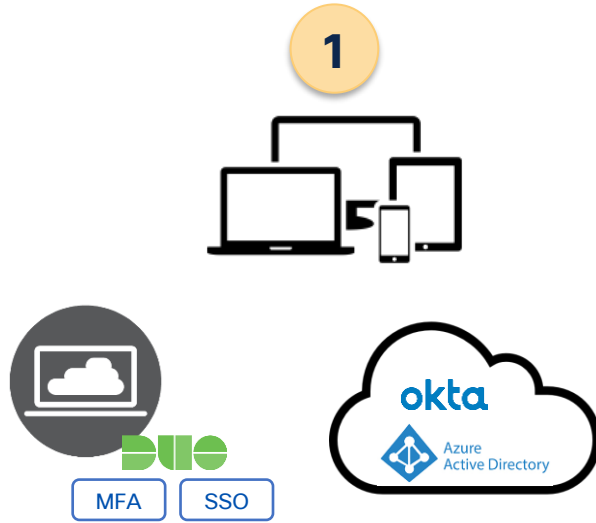
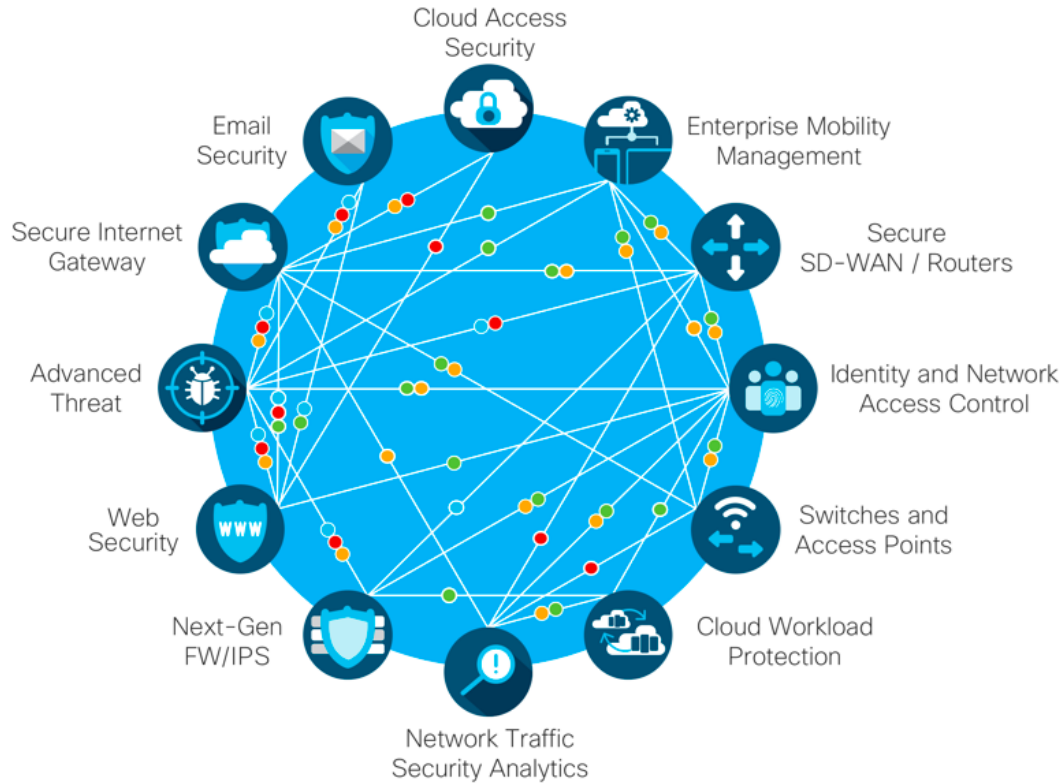# Two-step authentication with Duo

Double automated authentication

APP
APP
APP

Staff / Guest devices

Connect device to identity with ISE

IDENTITY SERVICES ENGINE

- Configuration automation
- User/device/ network app policy

Enrolled in SM

Not enrolled

WORKER / STAFF GUEST DEVICES

CUSTOMER DATA CENTER

- Identify user and endpoints
- Profile and classify devices
- Automated on-boarding security
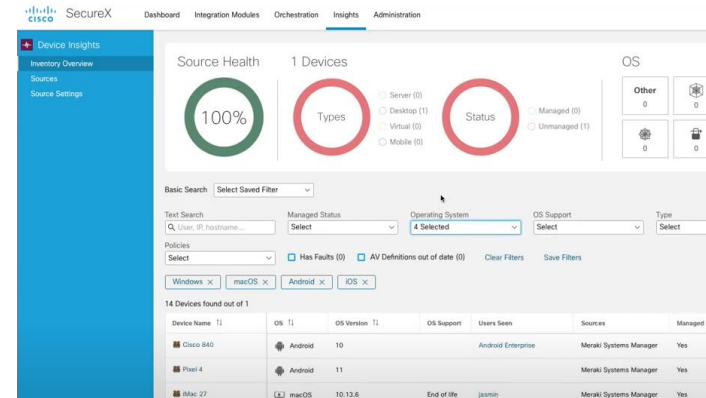- Sync groups with security policy
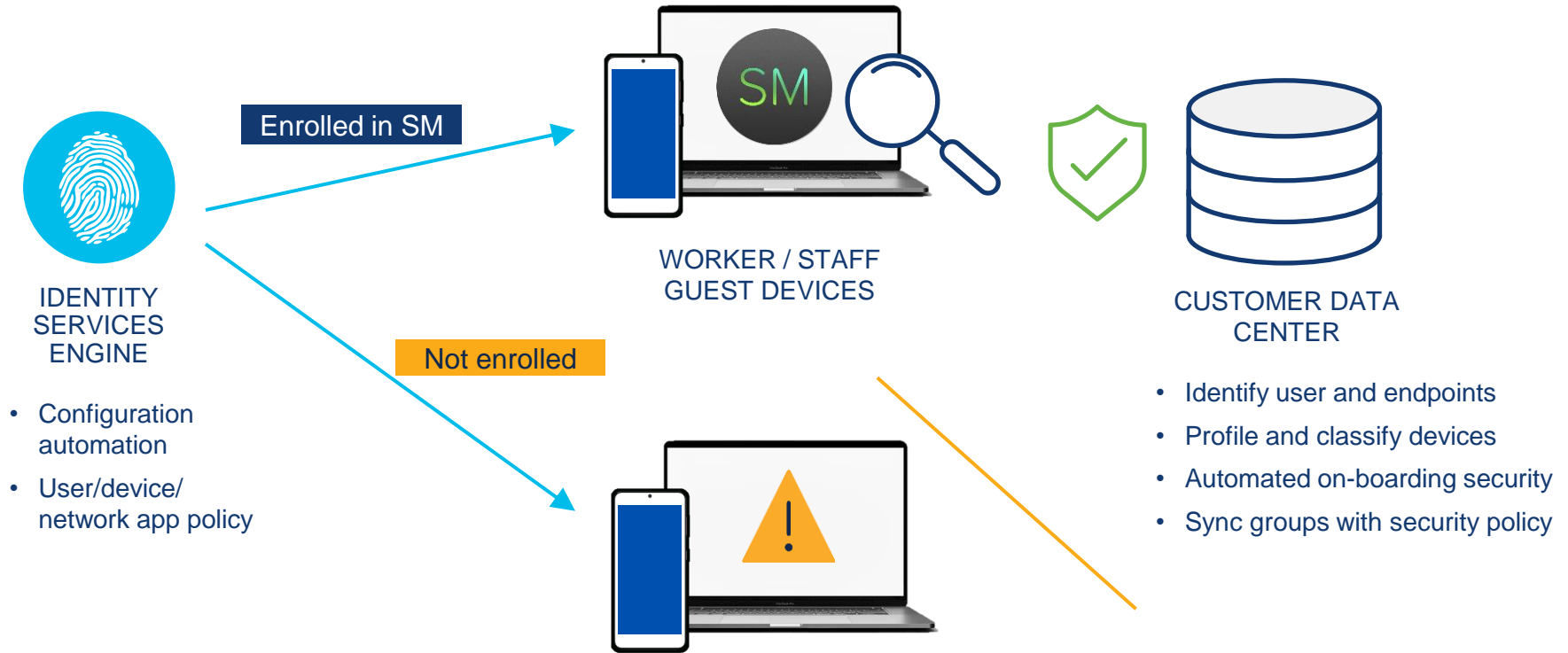
Secure Endpoints

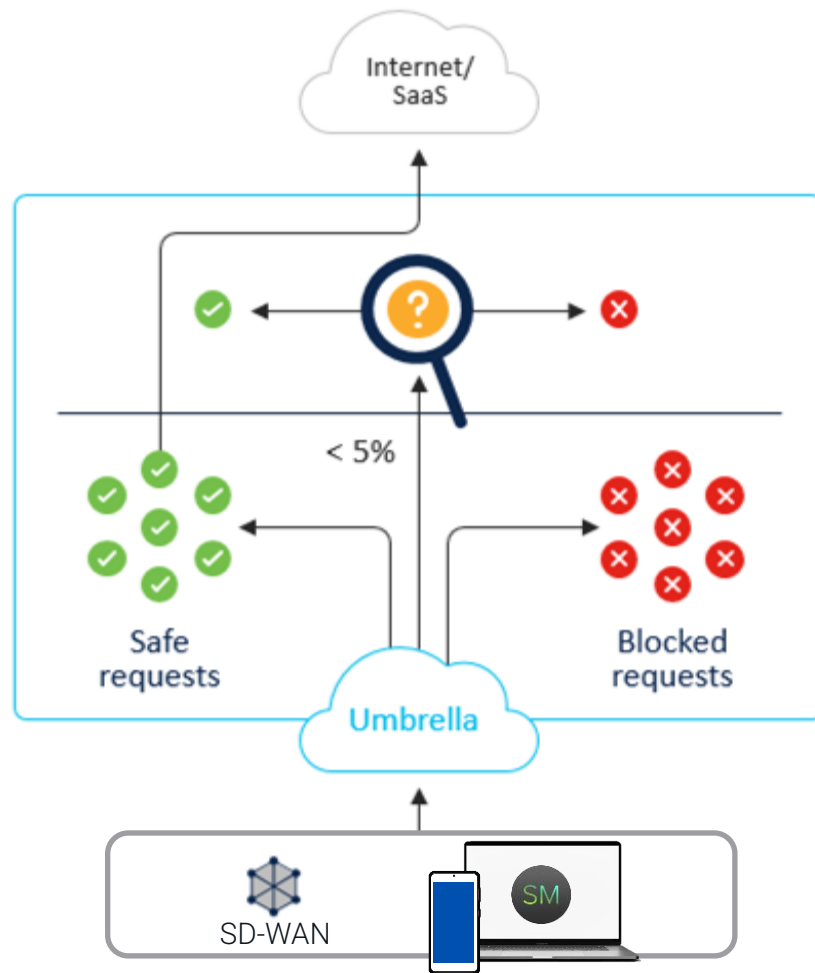# Integrated Threat Defense with Device Insights

XDR Device Insights, customers get a **Single console view** for endpoints across Meraki Systems Manager, Umbrella, Duo, Orbital and Secure Endpoint and custom sources.
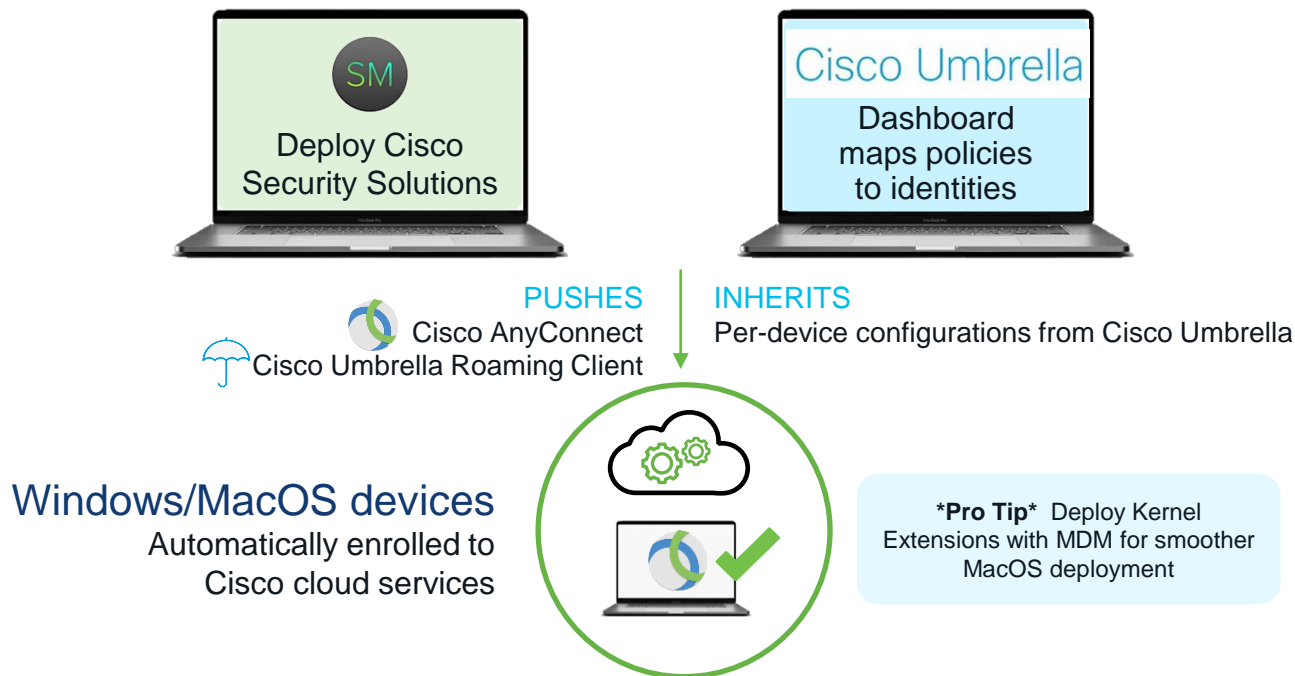
First line of defense against internet attacks with Umbrella

- All office locations
- Any device on or off your network
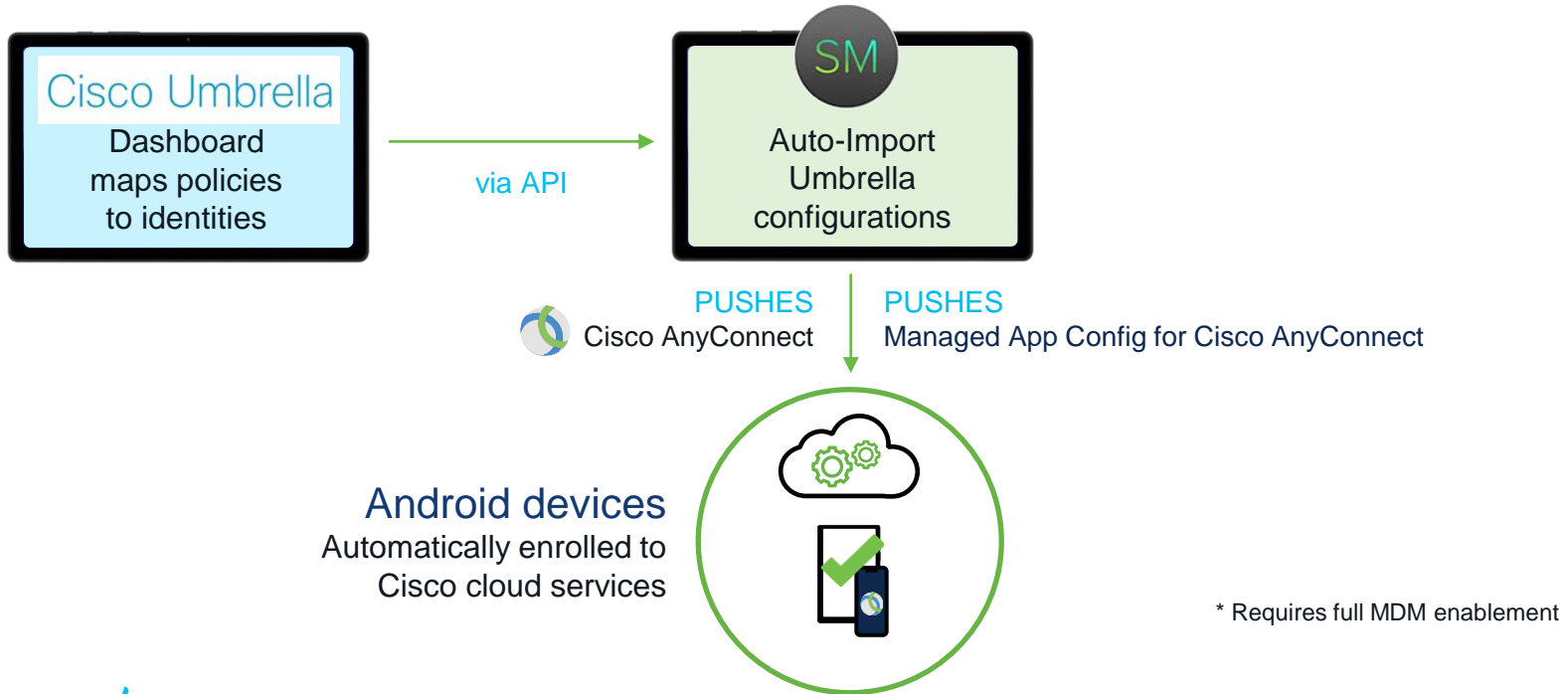- Every port and protocol

Umbrella Integration with SM on Windows/MacOS

Automatically import configuration from Umbrella with Umbrella Roaming Client

Deploy Cisco Security Solutions

Cisco Umbrella

Dashboard maps policies to identities

PUSHES
Cisco AnyConnect
Cisco Umbrella Roaming Client

INHERITS
Per-device configurations from Cisco Umbrella

Windows/MacOS devices
Automatically enrolled to Cisco cloud services

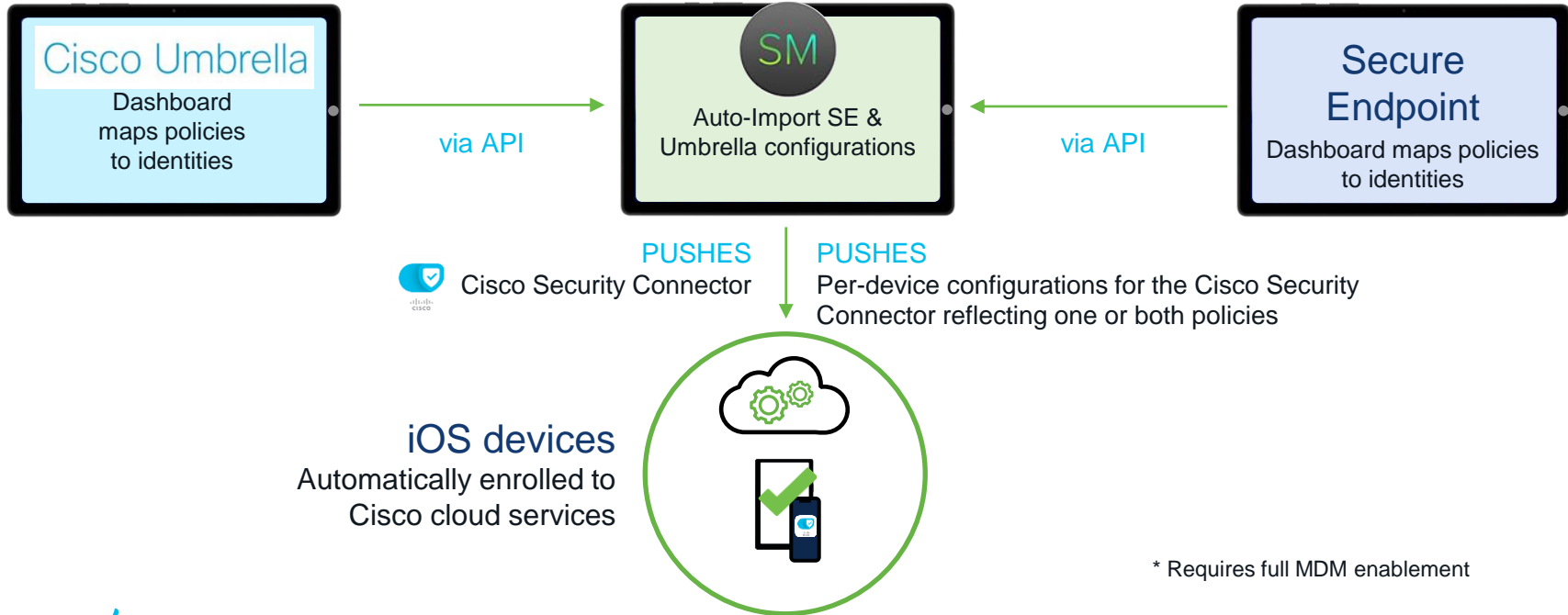*Pro Tip* Deploy Kernel Extensions with MDM for smoother MacOS deployment

Umbrella Integration with SM on Android
Automatically import configuration from Umbrella with Cisco AnyConnect

Cisco Umbrella
Dashboard
maps policies
to identities

via API

SM
Auto-Import
Umbrella
configurations

PUSHES
Cisco AnyConnect

PUSHES
Managed App Config for Cisco AnyConnect

Android devices
Automatically enrolled to
Cisco cloud services

* Requires full MDM enablement

Umbrella Integration with SM on iOS/iPadOS

Automatically import configuration from Umbrella & Clarity with Cisco Security Connector

Cisco Umbrella Dashboard maps policies to identities

via API →

SM Auto-Import SE & Umbrella configurations

← *via API*

Secure Endpoint Dashboard maps policies to identities

PUSHES — Cisco Security Connector

PUSHES — Per-device configurations for the Cisco Security Connector reflecting one or both policies

iOS devices Automatically enrolled to Cisco cloud services

* Requires full MDM enablement

Secure Networks

Zero Trust Network Access with Meraki
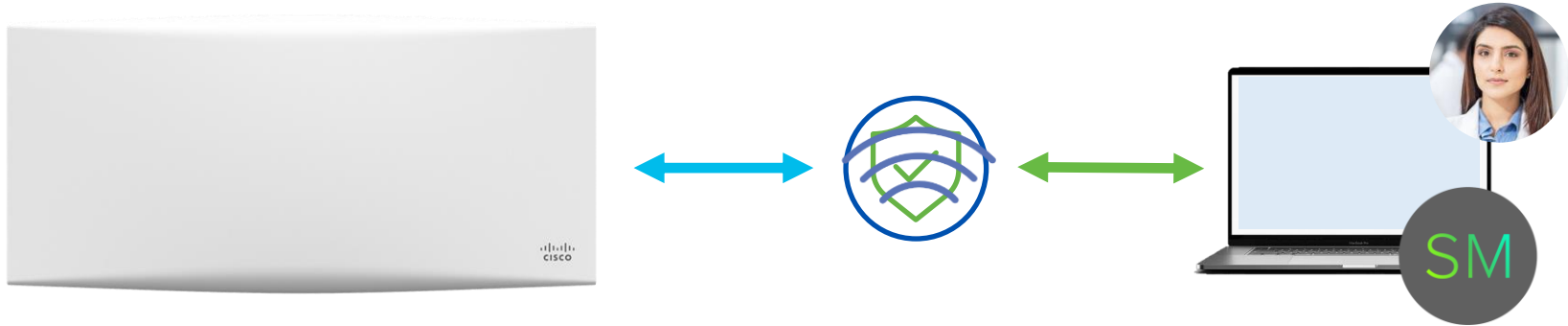

Secure ENDPOINTS
Trusted endpoints and authorized users

Secure NETWORKS
Seamless, secure onboarding to the network

Sentry Wi-Fi with Meraki MR

Connect devices to corporate WIFI via secure
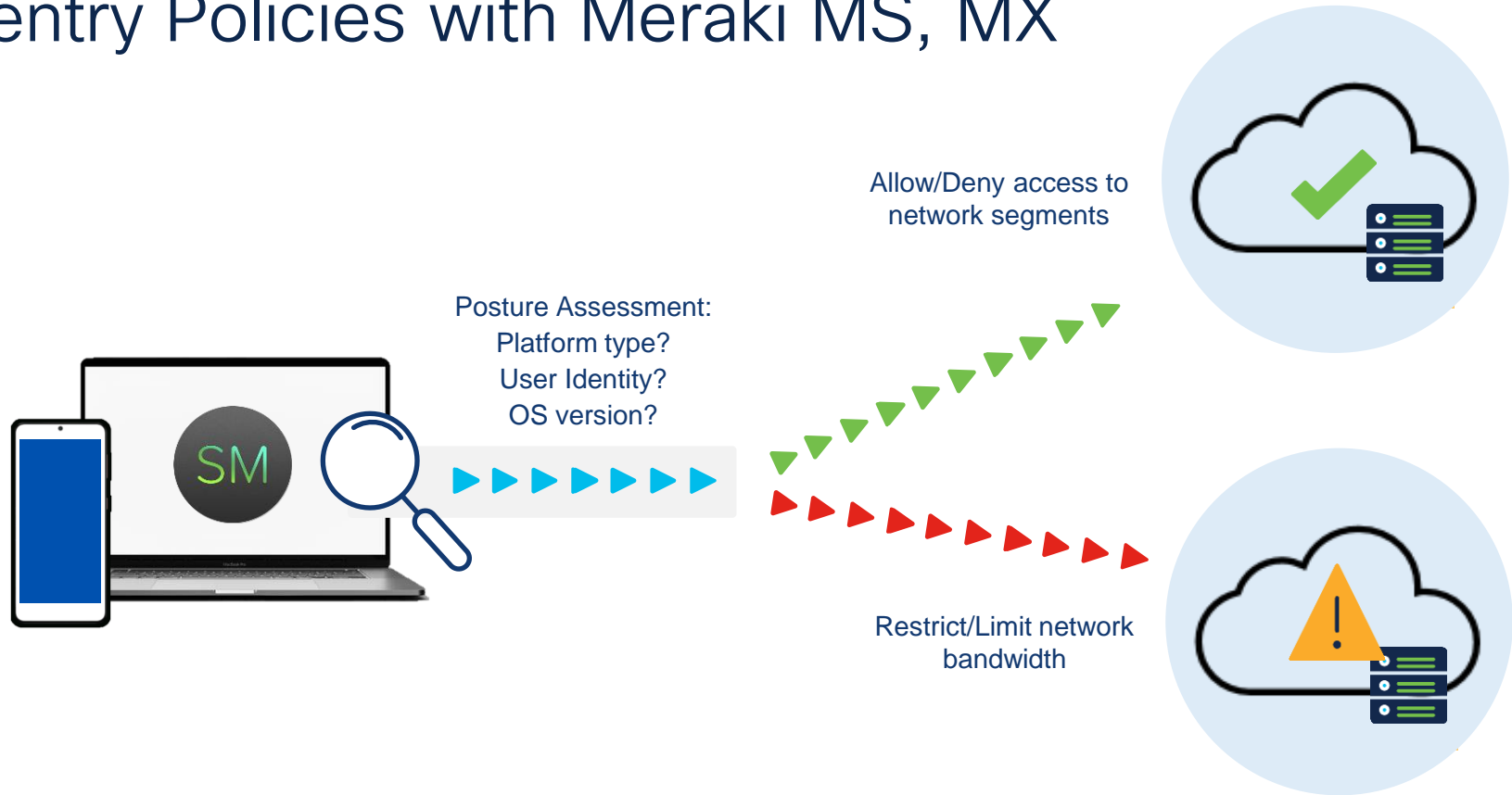auto-provisioned authentication

Clientless ZTNA

Trusted Access with Meraki MR

Enable personal devices to access critical resources without requiring installation of an MDM

Sentry Policies with Meraki MS, MX

Posture Assessment:
Platform type?
User Identity?
OS version?

Allow/Deny access to
network segments

Restrict/Limit network
bandwidth

"... one of the key requirements of ZTA is the ability to identify and manage devices"

Zero Trust Architecture, NIST SP 800-207

Endpoints: A Foundation for Zero Trust

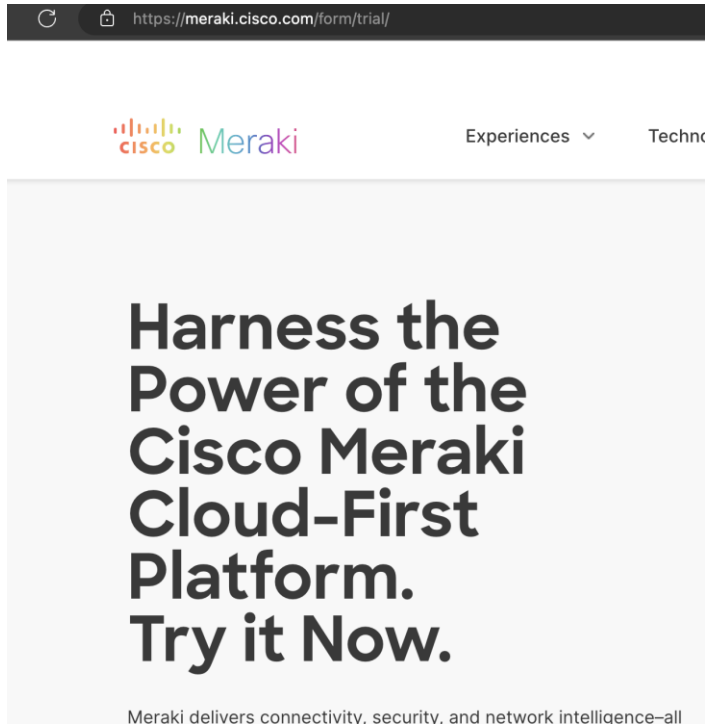| Authenticate endpoints with users + Duo MFA	Protect endpoints with Umbrella	Get endpoints on secure networks
Secure Users	Secure Endpoints	Secure Networks

Manage Endpoints with MDM
(try out Systems Manager)

Learn More

Try out Meraki Systems Manager and other products (MR, MX) with a free trial.

https://meraki.cisco.com/form/trial

Try out Cisco Duo and Cisco Umbrella

https://signup.duo.com/

https://signup.umbrella.com/

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Cisco Learning Network
Resource community portal for certifications and learning

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Cisco Continuing Education Program
Recertification training options for Cisco certified individuals

Here at the event? Visit us at The Learning and Certifications lounge at the World of Solutions
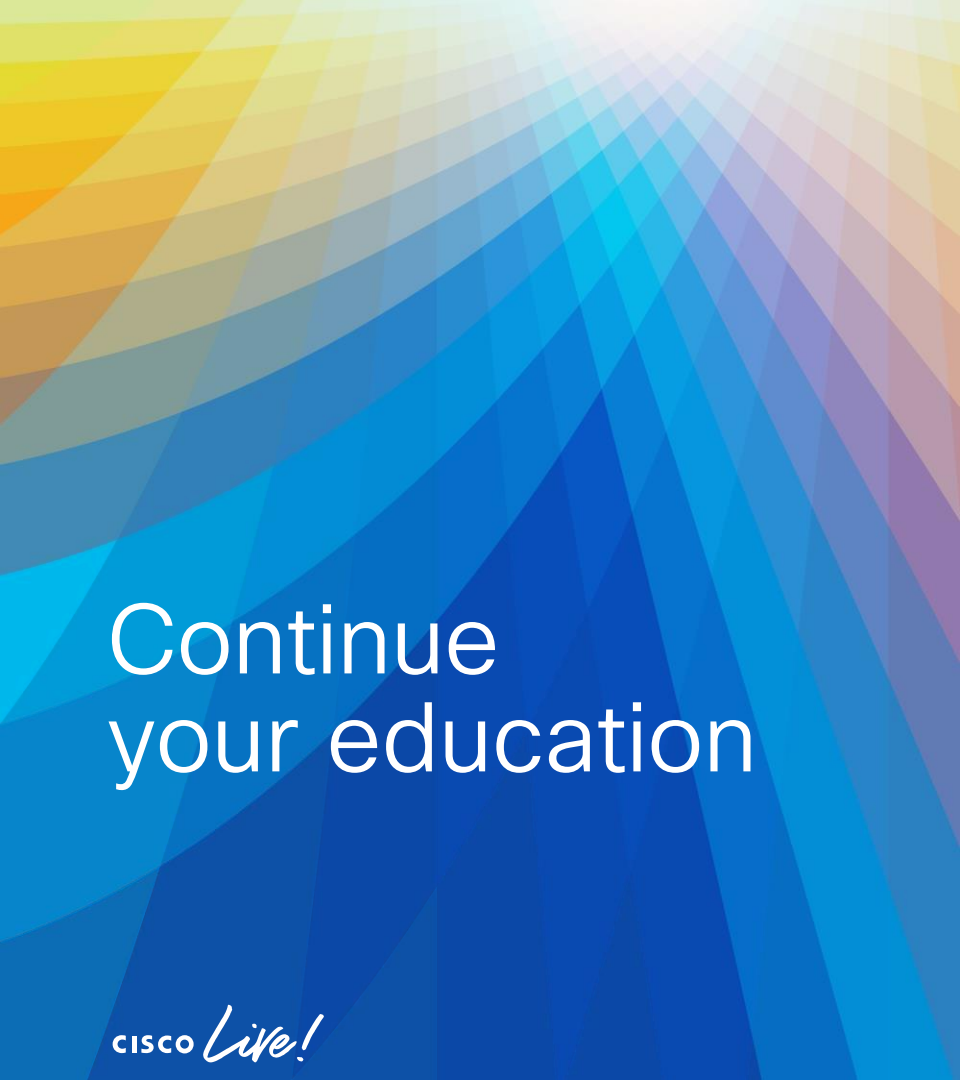
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- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs

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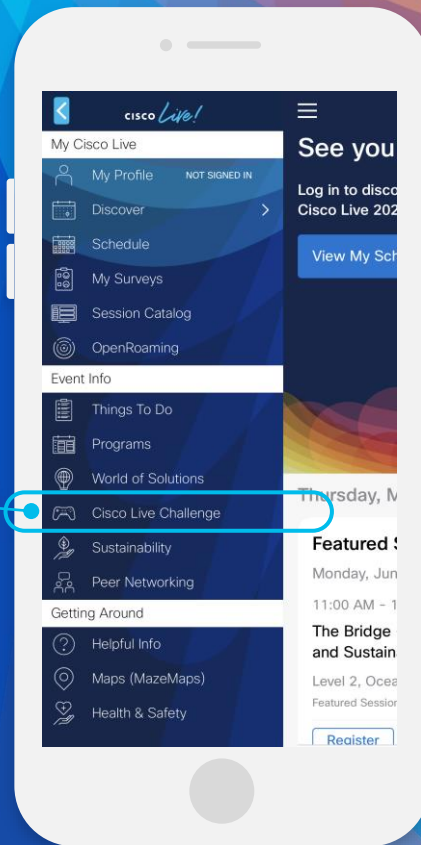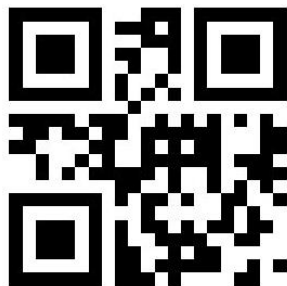
Thank you
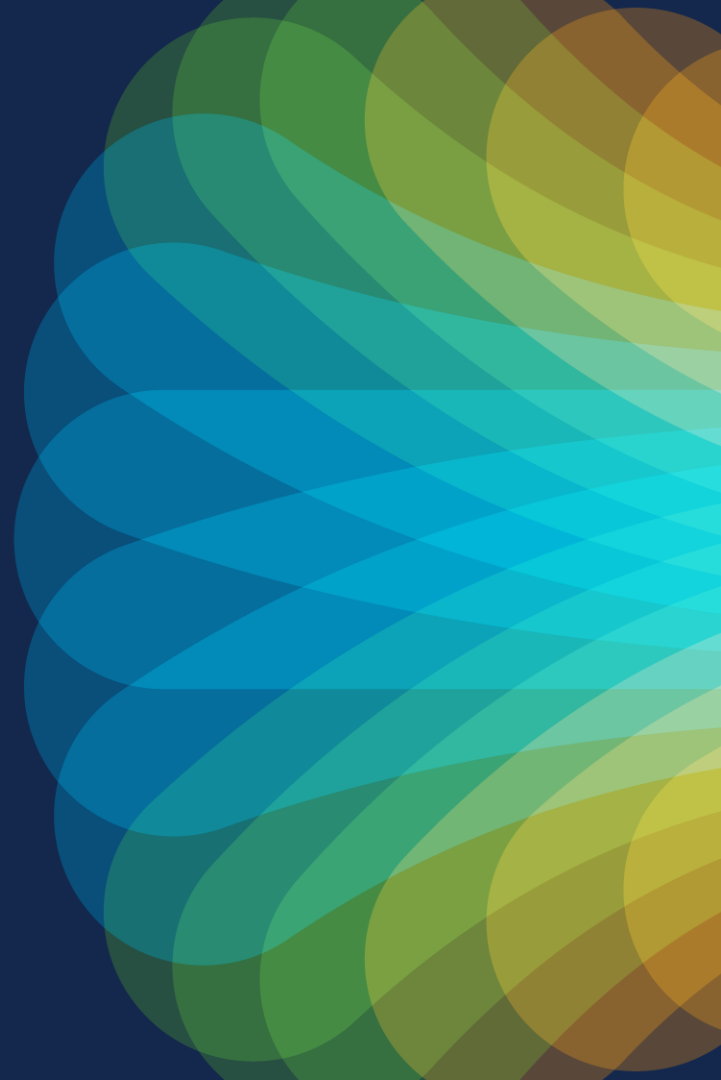
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How:

1 Open the Cisco Events App.

2 Click on 'Cisco Live Challenge' in the side menu.

3 Click on View Your Badges at the top.

4 Click the + at the bottom of the screen and scan the QR code:

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