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#CiscoLive



The bridge to possible

Zero Trust for the Cisco Workforce

Jacob Davidson, Technical Systems Engineer Mac@Cisco

Lila Blum, Zero Trust Application Lead

ITLBRK-2006



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Meet your presenters



Jacob Davidson

Zero Trust Mac Lead

20-year veteran of endpoint management with multiple Jamf certifications

Will never forget the T568B ethernet wire sequence order



Lila Blum

Zero Trust Core team application lead
3rd national conference, 2nd with Jacob
Carnegie Mellon Grad



Cisco Webex App

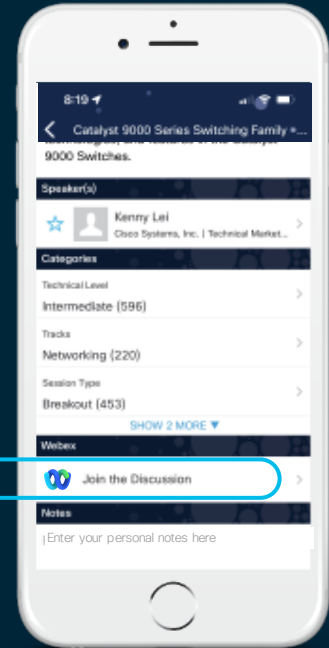
Questions?

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

How

- 1 Find this session in the Cisco Live Mobile App
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- 4 Enter messages/questions in the Webex space

Webex spaces will be moderated by the speaker until June 17, 2022.



<https://ciscolive.ciscoevents.com/ciscolivebot/#TLBRK-2006>

Agenda

- Meet Zoe Zero Trust
- Define Zero Trust
- Zero Trust at Cisco: Why and How?
- Device Management Enables Cisco Zero Trust
- Results & Lessons Learned

Let's meet Zoe Zero Trust



Zoe's Traditional At-Home Access to Work



Zoe wants to connect to her work files while she's at home.

She's using **VPN** and she is frustrated because her connection can sometimes:

- Be slower
- Have a longer login process
- Disconnect when she shuts the laptop
- Increase company expense by backhauling traffic to the corporate network



Is there a better way?

Zoe wants to connect to her work files while she's at home.

Since Cisco rolled out Zero Trust, she logs in once to cloud SSO, approves an MFA, and everything else happens in the background.

Her access is secure *and* convenient.



Defining Zero Trust



Zero Trust – at a glance

Security Model

Assumes inevitable breach

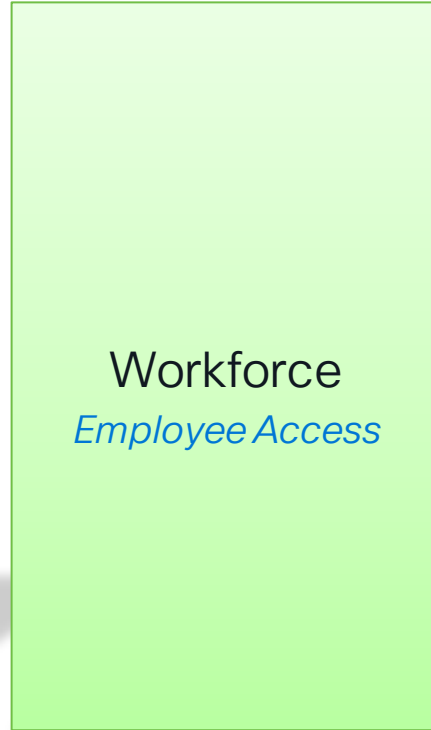
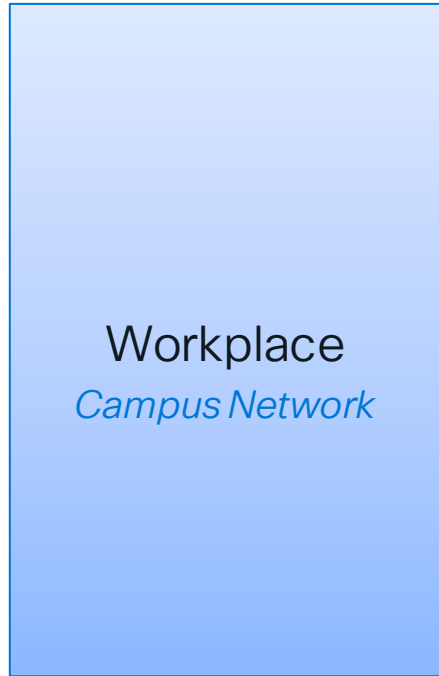
No special privileges inside perimeter

Dynamic & policy-based access

Least-privilege access

Continual monitoring

Cisco's Zero Trust Pillars



Zero Trust at Cisco: Why did we implement it, and how?



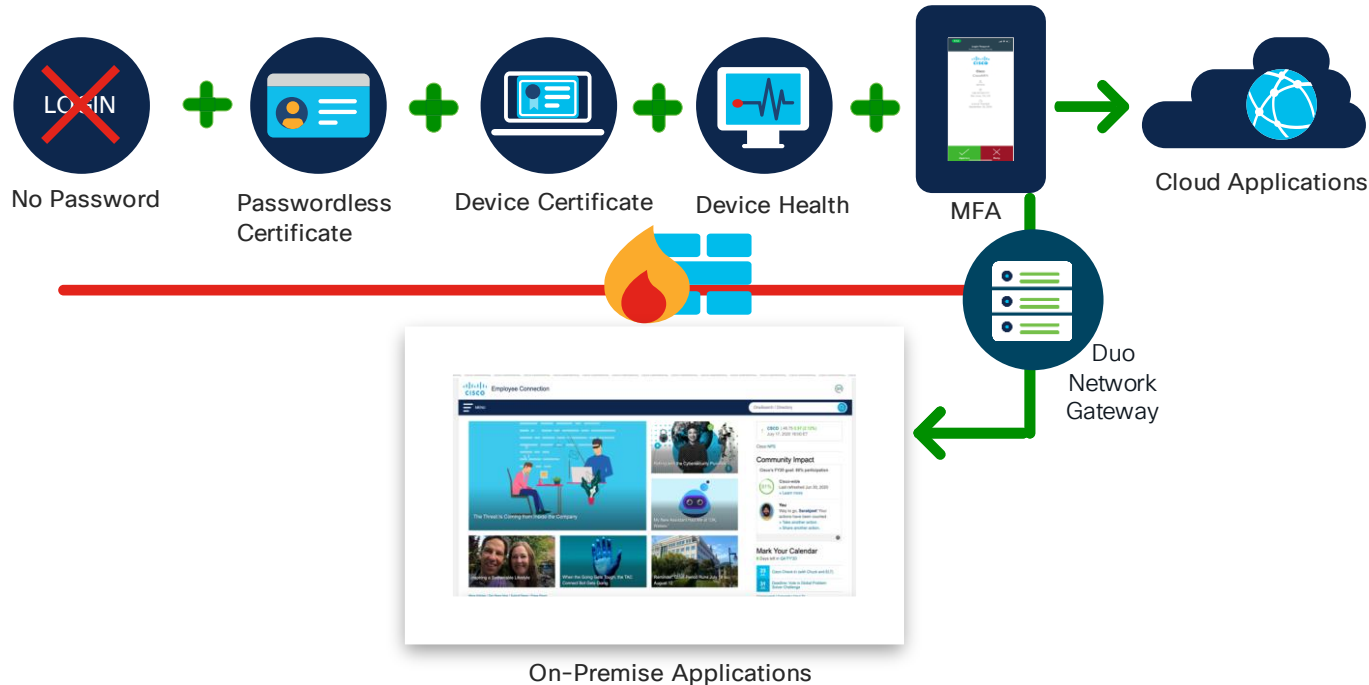
Why Did Cisco Implement Zero Trust?

- Cisco-on-Cisco
- Cutting-edge Duo technology
- Improved authentication experience
- Borderless access
- Increased security
- Defense in depth



How does the Cisco Zero Trust flow work?

Borderless Access with an Improved Authentication Experience



Device Management Enables Cisco Zero Trust Implementation



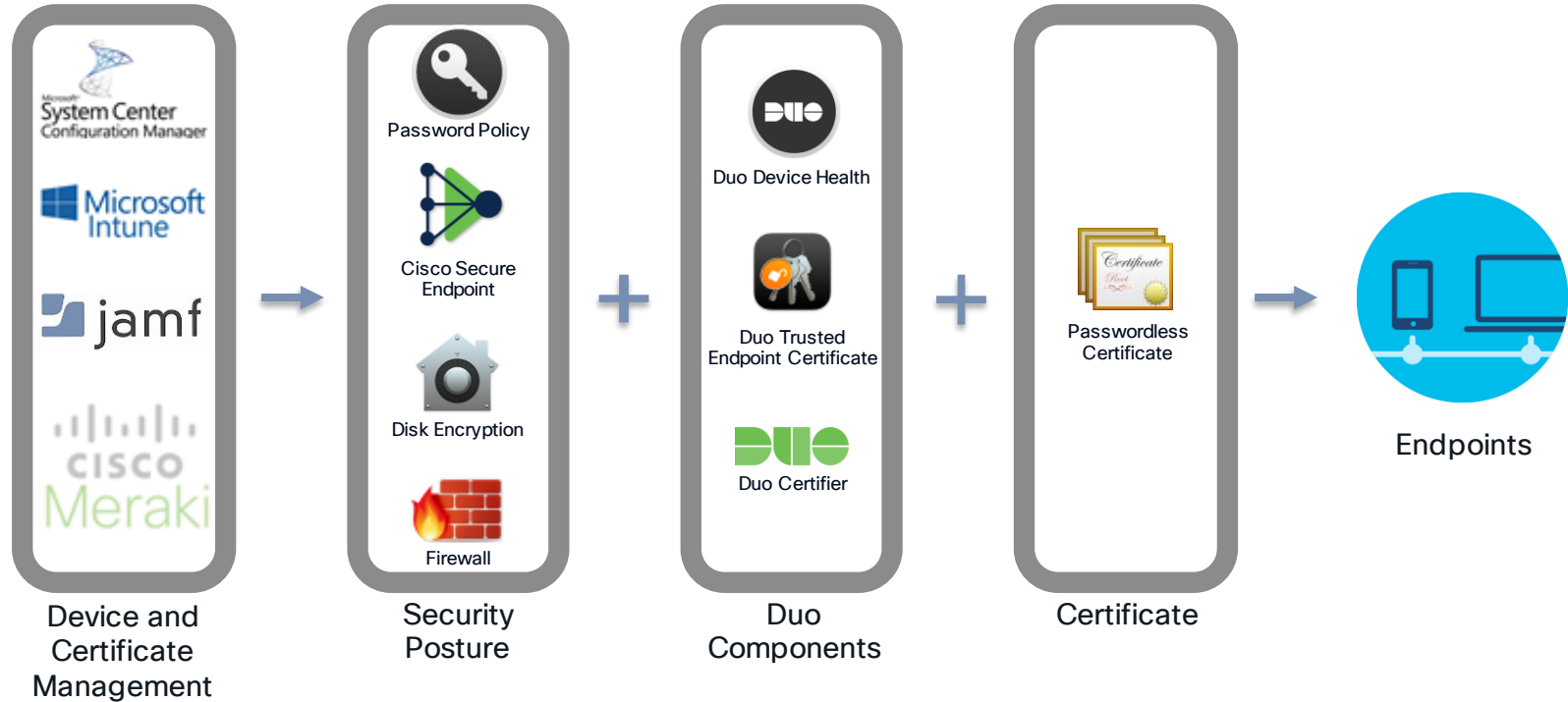
Video Demo: v1.0

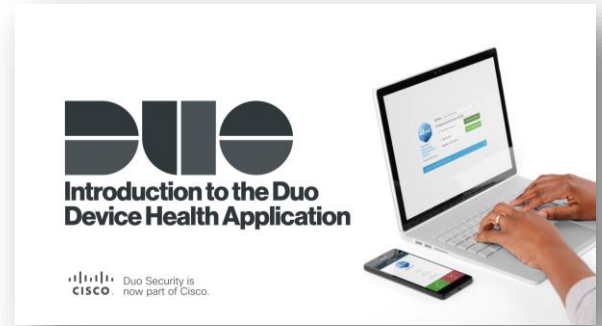
Demo: Our v1.0 macOS Implementation



Zero Trust Architecture

Managed Components: v1.0





What have we changed since November 2020?



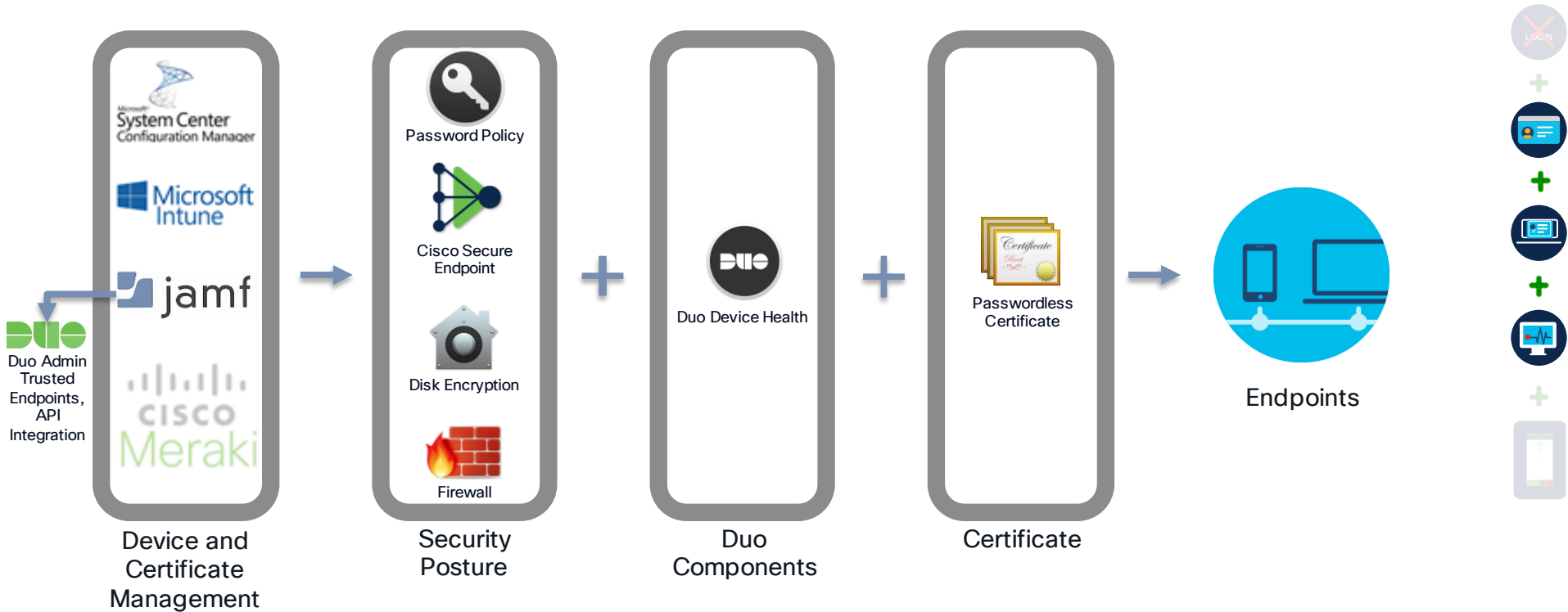
Video Demo: v1.1

Demo: Our v1.1 macOS Implementation



Zero Trust Architecture

Managed Components: v1.1



What is new for v1.2?



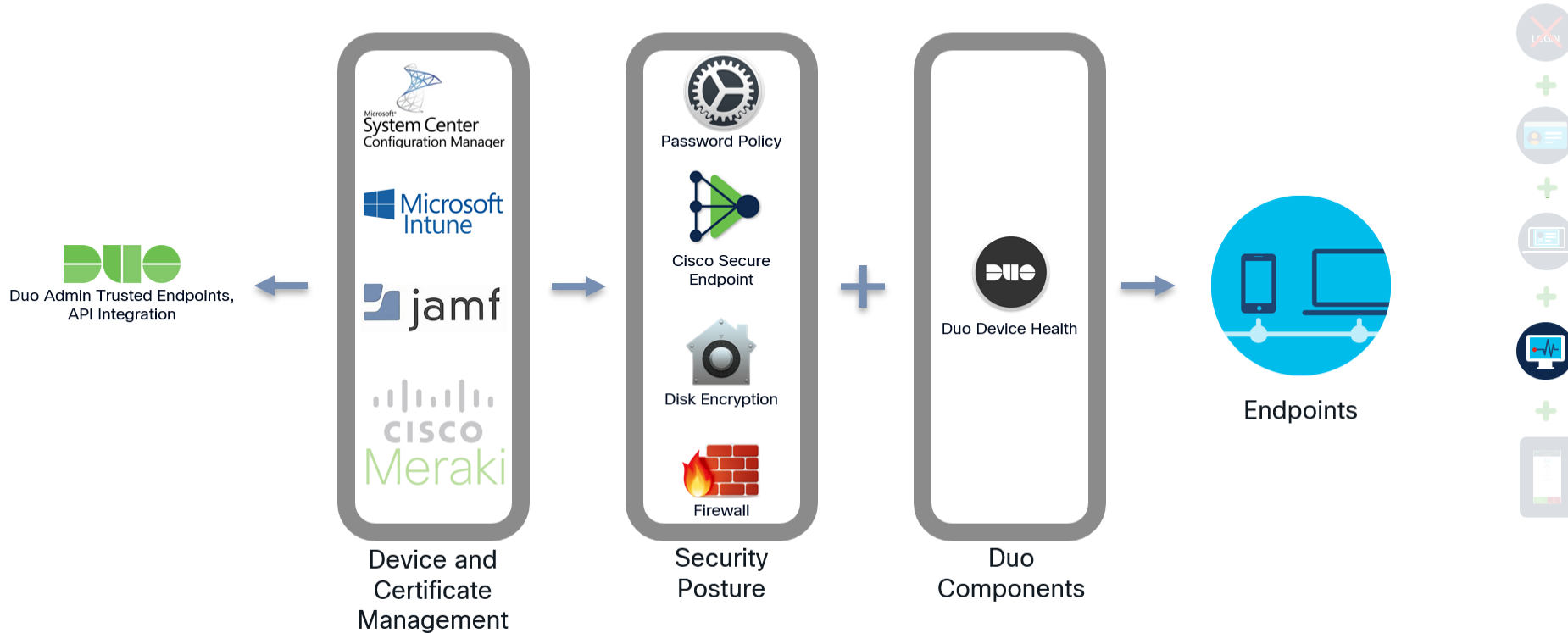
Video Demo: v1.2

Demo: Our v1.2 macOS Implementation



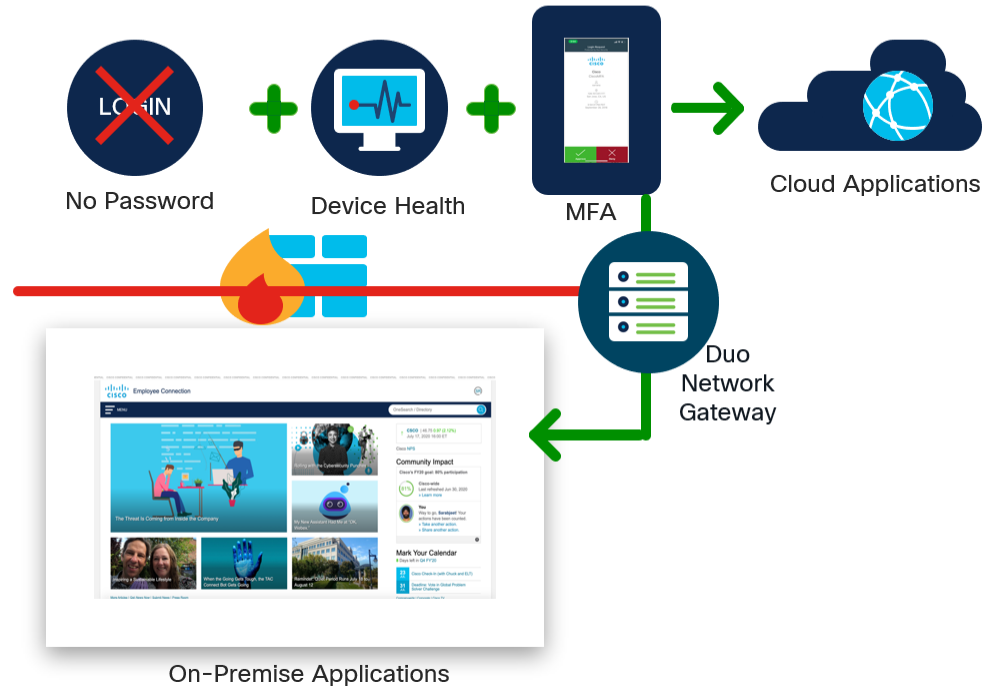
Zero Trust Architecture

Managed Components: v1.2



How *will* the Zero Trust flow work?

More Simplified Authentication Experience



I thought you said I
could use my mobile?



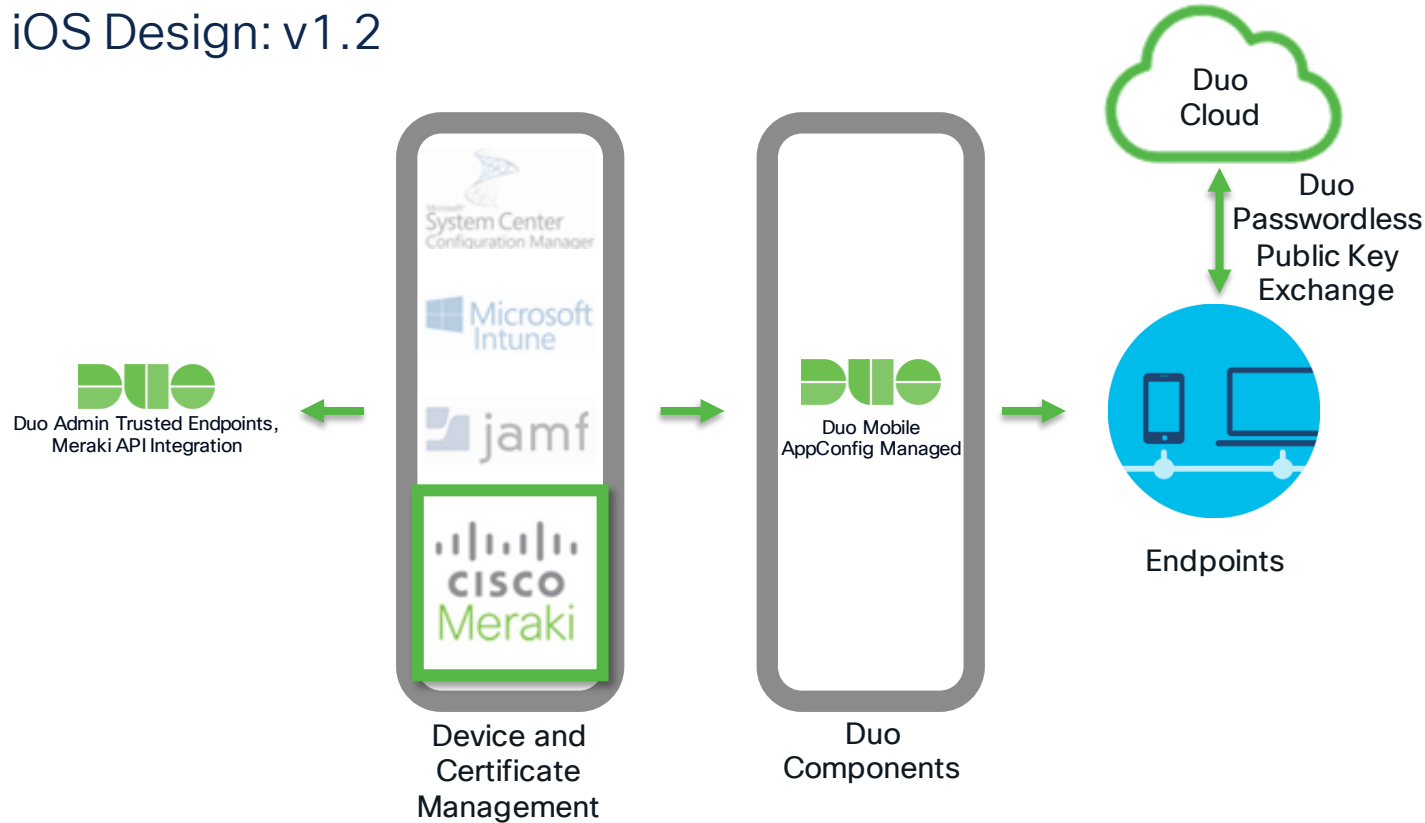
Video Demo: iOS v1.2

Demo: Our v1.2 iOS Implementation



Zero Trust Architecture

iOS Design: v1.2



Results & Lessons Learned



Key Results, April 2022



140K devices enabled for Zero Trust



130K employees (like Zoe) enabled



124 applications onboarded



5.7 million health checks per month



<2% of users contact help desk per month



Lessons Learned

Prioritize “done”



Executive
buy-in



Fleet health



Automate app
discovery



Change requires
flexibility



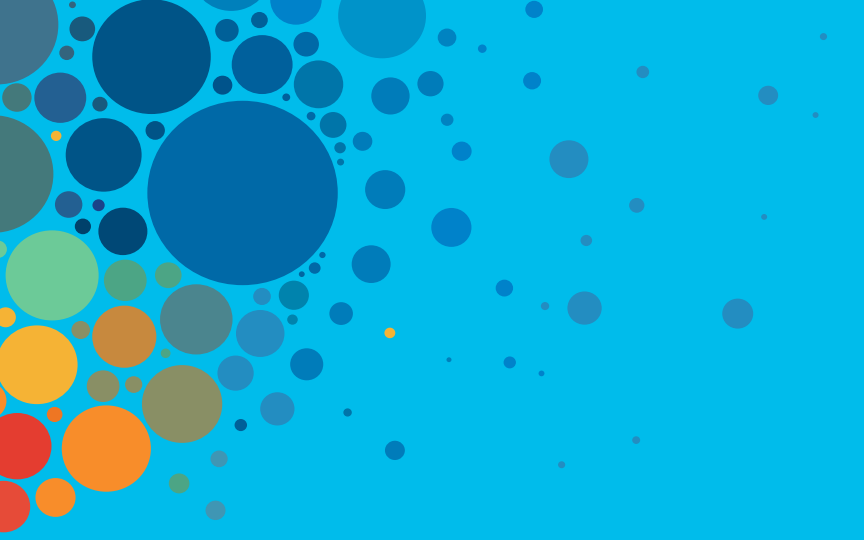
The bridge to possible

Thank you

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