cisco live!









Identity As We Know It Is About to Change

Josh Green - Tech Lead EMEAR, Duo Security

BRKSEC-2074



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 June 17, 2022.



https://ciscolive.ciscoevents.com/ciscolivebot/#BRKSEC-2074





Agenda

- Who Am I? (How do you really know?)
- What's Wrong With Identity?
- What Can We Do About it?
- How Does it Work?
- What Are the Challenges?
- Next Steps
- Conclusion



Who Am I?



How Do You Know

My badge?

How did that get issued?

My documents?

What if they are fake?

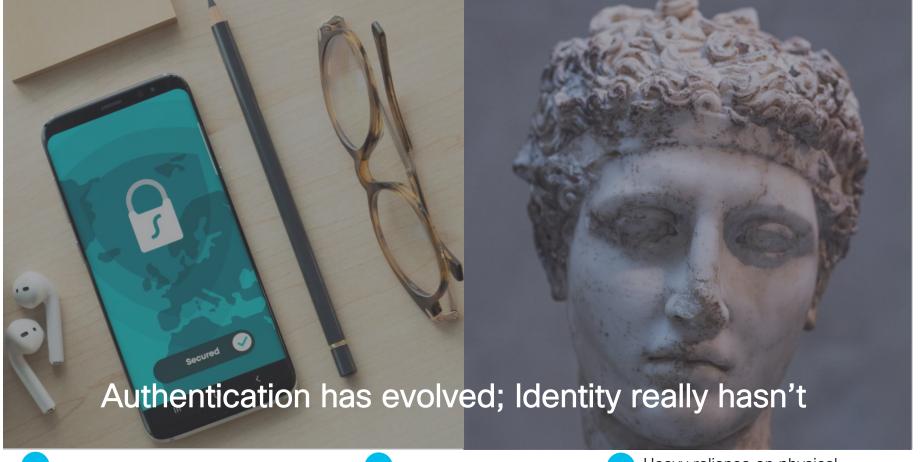


You don't know. You can't independently verify. And if stolen, so hard to recover

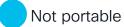


What's Wrong with Identity?













What are the consequences



ldentity theft continues to be the #1 cause of breaches as users don't control their own data



Interfacing with passwords and Onboarding /offboarding users costs more & more time and money



Single points of failure in identity systems can cause productivity and sensitive data loss



What can we do about it?



What can we do



Identity theft continues to be the #1 cause of breaches as users don't control their own data

Replace analogue identity docs with digital identities secured by biometrics and distributed ledgers



Interfacing with passwords and Onboarding /offboarding users costs more & more time and money

Eliminate usernames and passwords entirely. Use Verifiable Credentials tied to Digital Identities instead



Single points of failure in identity systems can cause productivity and sensitive data loss

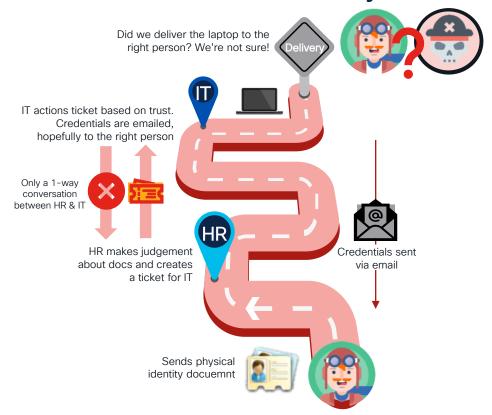
Decentralize infrastructure allowing for redundancy in accessing the most important business applications, and verifiying without direct connectivity



How Will Things Change?

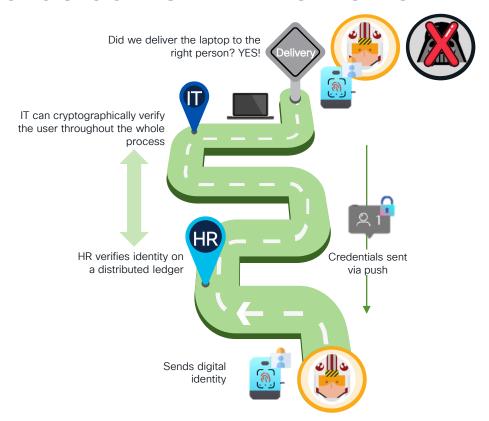


Jill onboards at ACME- Today



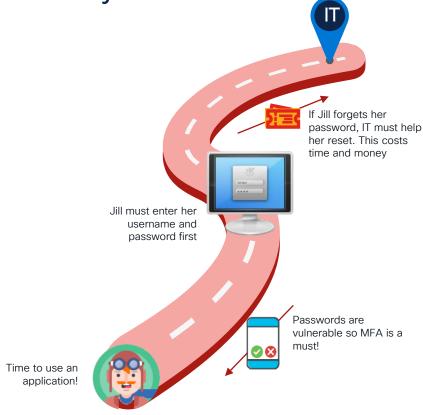


Jill onboards at ACME- Tomorrow



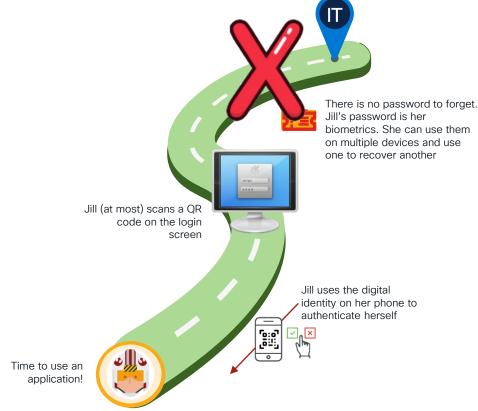


Jill logs in-Today





Jill logs in-Tomorrow



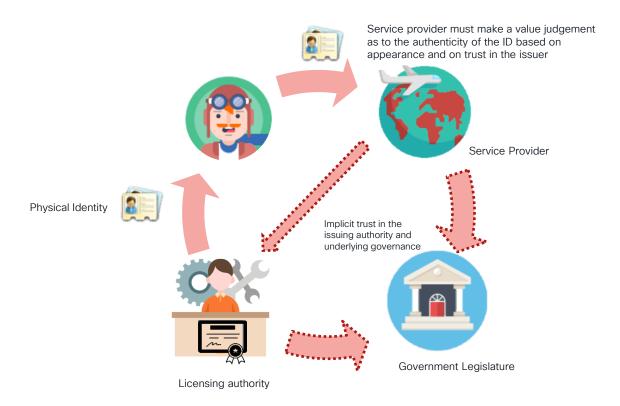






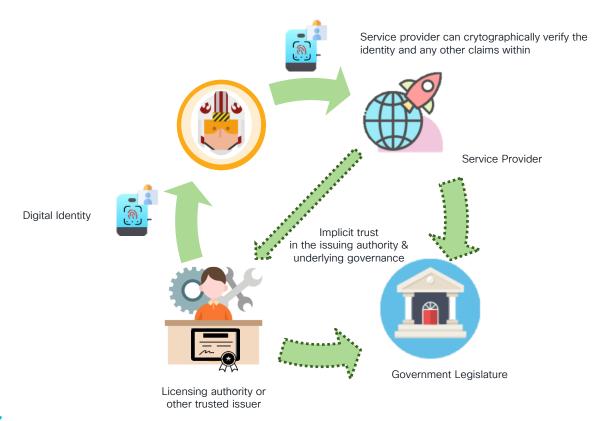


Digital Identity Basics - The Old Way



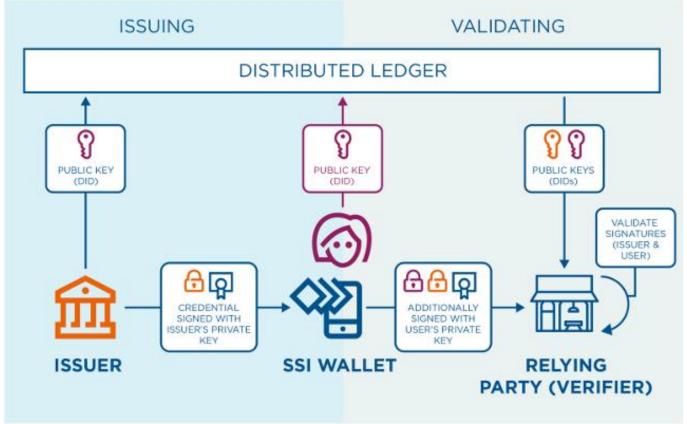


Digital Identity Basics - The New Way



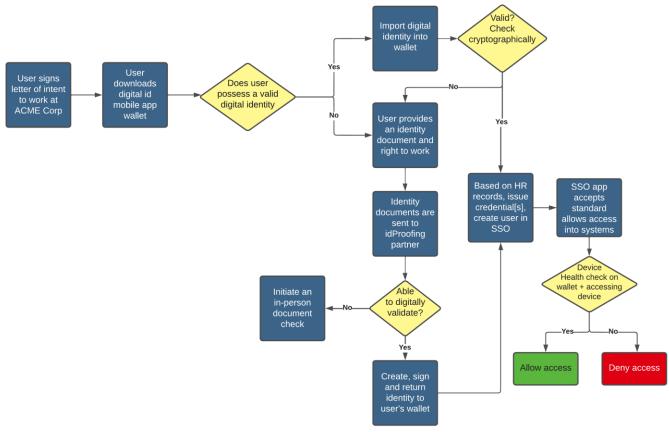


Digital Identity Basics - A Little Deeper



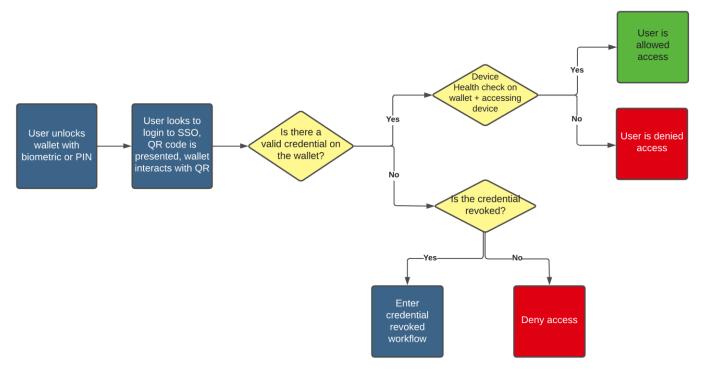


Onboarding Flow





Login Flow





The Challenges



The Challenges



Chicken and egg: widespread adoption vs interoperability



Government involvement: A trusted source without being a controlling force



Distributed Ledger: ScalabilitySolve at Layer 1 or Layer 2?



Build public trust in the solutions



Public or private distributed ledger: If private, tokenomics of maintaining a network of sufficient size to prevent a 51% attack



Future proofing: Quantum safety on immutable ledgers



Next Steps



More on Digital Identity

- TrustOverIP trustoverip.org
- Decentralised Identity Foundation (DIF)
- Interplanetary Filesystem- https://ipfs.io



BRKSEC-2074

Technical Session Surveys

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



Security Reference Architecture



Cisco Learning and Certifications

From technology training and team development to Cisco certifications and learning plans, let us help you empower your business and career. www.cisco.com/go/certs



(CLCs) are prepaid training vouchers redeemed directly with Cisco.



Learn



Train



Certify



Cisco U.

IT learning hub that guides teams and learners toward their goals

Cisco Digital Learning

Subscription-based product, technology, and certification training

Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

Cisco Learning Network

Resource community portal for certifications and learning



Cisco Training Bootcamps

Intensive team & individual automation and technology training programs

Cisco Learning Partner Program

Authorized training partners supporting Cisco technology and career certifications

Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses



Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

Cisco Guided Study Groups

180-day certification prep program with learning and support

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





Continue your education

- Visit the Cisco Showcase for related demos
- Book your one-on-one Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at www.CiscoLive.com/on-demand



Thank you



cisco live!



