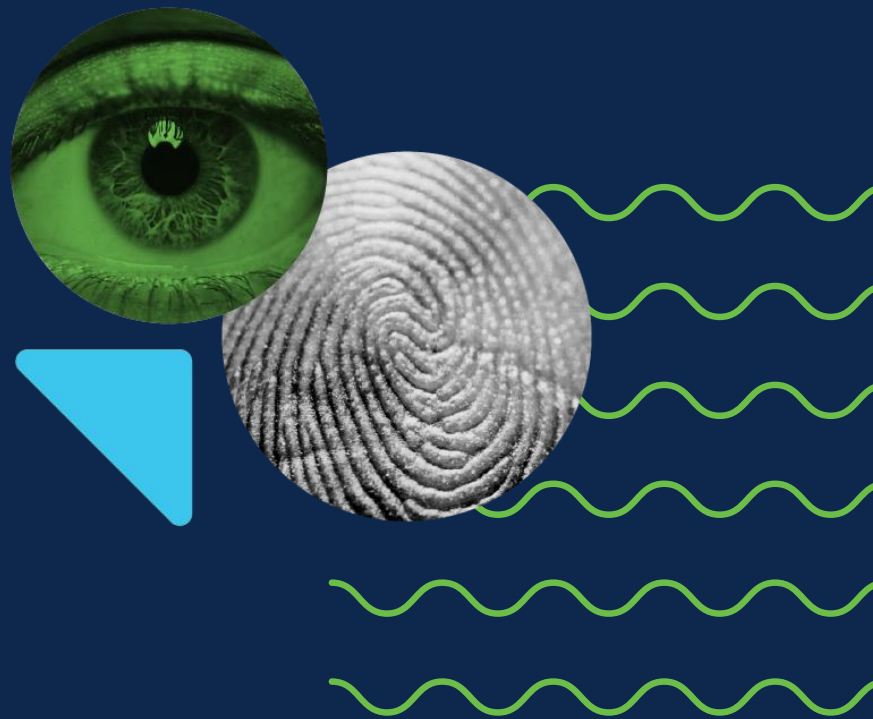


Есть ли жизнь без паролей?

Михаил Кадер
mkader@cisco.com
16.06.2021



The Problems with Passwords

Cumbersome & Costly



20-50%

Help desk tickets are
for password related
issues

– Gartner Group

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Poor User Experience



190

of passwords in use by an average corporate

- LastPass Research

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190

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Easily Compromised



81%

Of breaches involve **weak or stolen credentials**

- Verizon Data Breach Report

Passwordless: Definition

Passwordless authentication removes the shared secret, or “something you know,” factor from MFA and relies on something you have something you are.



Passwordless: The Appeal

Why Now?



The ubiquity of
the **smartphone**.

Passwordless: The Appeal

Why Now?



The ubiquity of the **smartphone**.



The improvement and prevalence of **biometrics**.

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The inclusion of a **secure enclave** in endpoints, enabling the storage of **FIDO2** credentials.

Passwordless: The Appeal

Why Now?



The ubiquity of the **smartphone**.



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The inclusion of a **secure enclave** in endpoints, enabling the storage of **FIDO2** credentials.

What's the Appeal?

The promise of passwordless is both **improved security** and **improved usability**.

The Challenges of Passwordless

It's
confusing!



Passwordless is a market
with few definitions and
lots of buzz.

The Challenges of Passwordless

It's
confusing!



Passwordless is a market
with few definitions and
lots of buzz.

It's a
journey!



Modern **IT environments**
are complex. Change
requires planning.

The Challenges of Passwordless

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Passwordless is a market with few definitions and **lots of buzz**.

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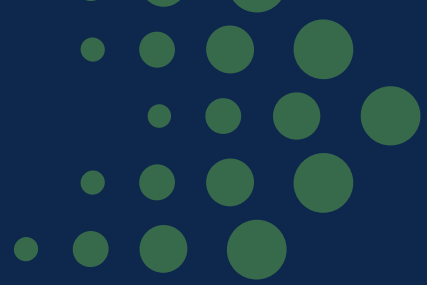
Modern **IT environments are complex**. Change requires planning.

It has user experience
issues too.



Nascent technology has yet to implement mature User Experience functionality.

Cisco Duo's Passwordless Vision

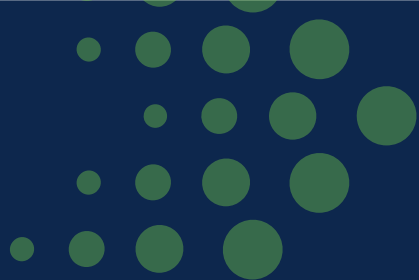


Bring simplicity and clarity

Provide clear information regarding our **use cases** and **capabilities**.

- Easily configure for **federated applications**.
- Native support for platform **biometrics and security keys**.
- Passwordless authentication through **Duo Mobile**.

Cisco Duo's Passwordless Vision



Bring simplicity and clarity

Secure the entire journey

Provide clear information regarding our **use cases and capabilities**.

-
- Easily configure for **federated applications**.
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Provide **robust & flexible security** regardless of IT stack.

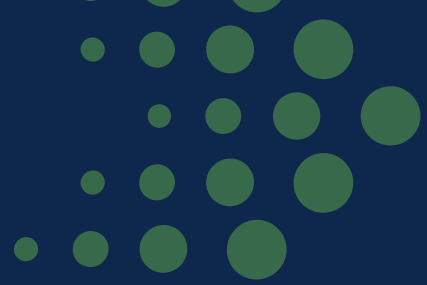
-
- **Identity agnostic**.
 - Roll out passwordless to **specific groups of users**.
 - **Smooth, secure fallback** where passwordless isn't a fit.



SECURE

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Cisco Duo's Passwordless Vision



Bring simplicity and clarity

Secure the entire journey

Provide frictionless useability

Provide clear information regarding our **use cases and capabilities**.

- Easily configure for **federated applications**.
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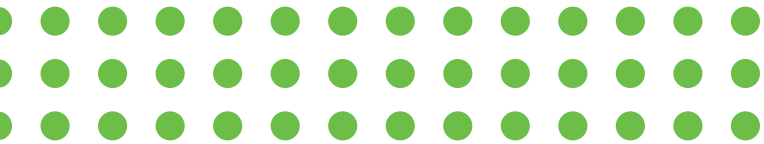
Make it **consistent and easy** for users to understand and use.

- **One application** for all authentication scenarios.
- Register **multiple devices** for passwordless authentication.
- Simple **recovery workflow** for lost/stolen devices.

Demo



Enrollment





Search

cdemundo



Jira



Lessonly



Level Up [Internal]



Looker



Lucidchart



Omni



Omni [FAM]



Phab



RingCentral



Rooms



Salesforce



Security Engineering Platform



Slack



Snowflake [DuoEng]



StatusPage



Wiki (Confluence)



Wrike



Zendesk [Help Center]



Duo Central Feedback

Secured by Duo

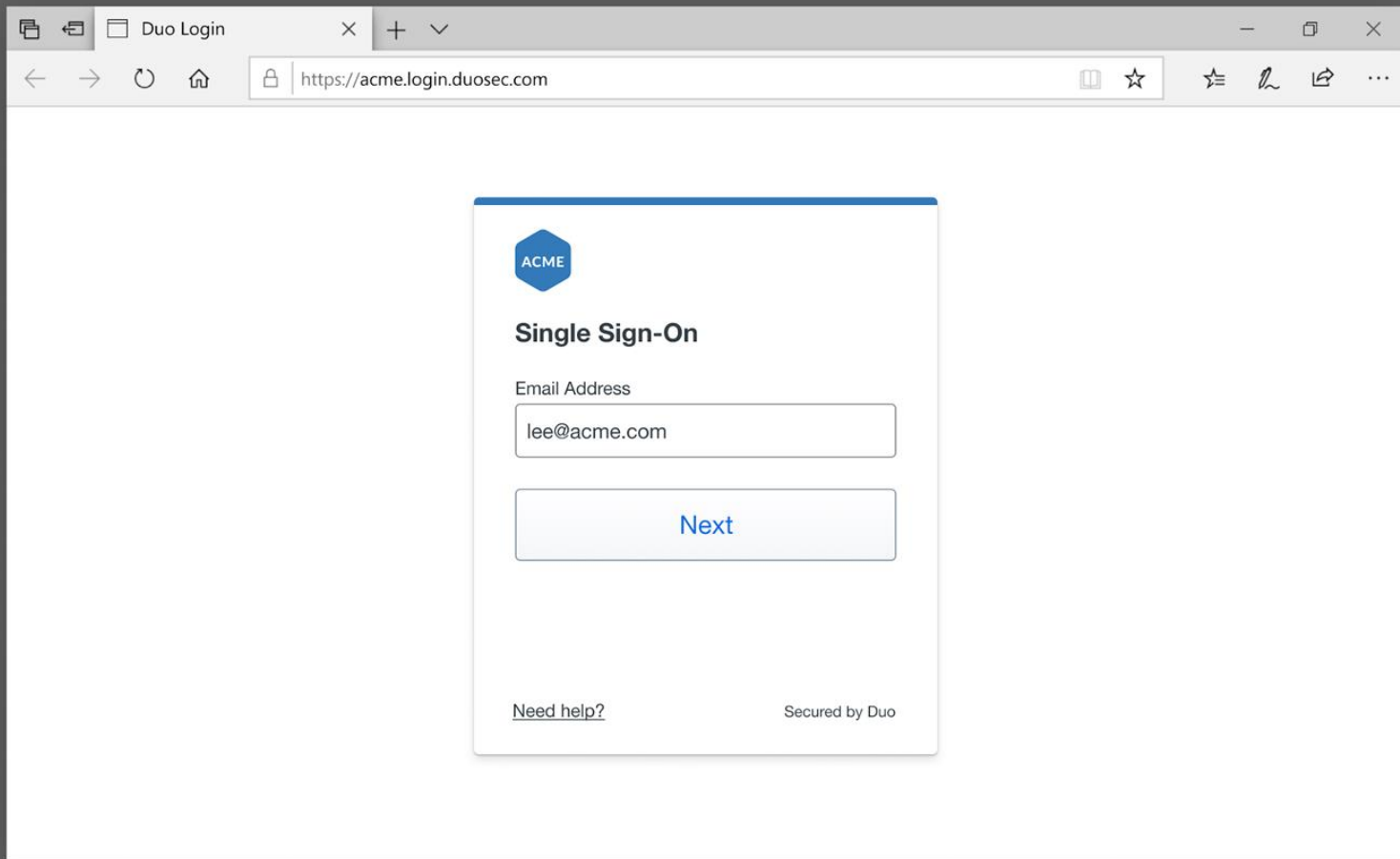


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1:07 PM
7/2/2020





Type here to search




1:07 PM
7/2/2020



Duo Login

https://acme.login.duosec.com



Single Sign-On

Email Address

Password

[Log In](#)

[Need help?](#) Secured by Duo

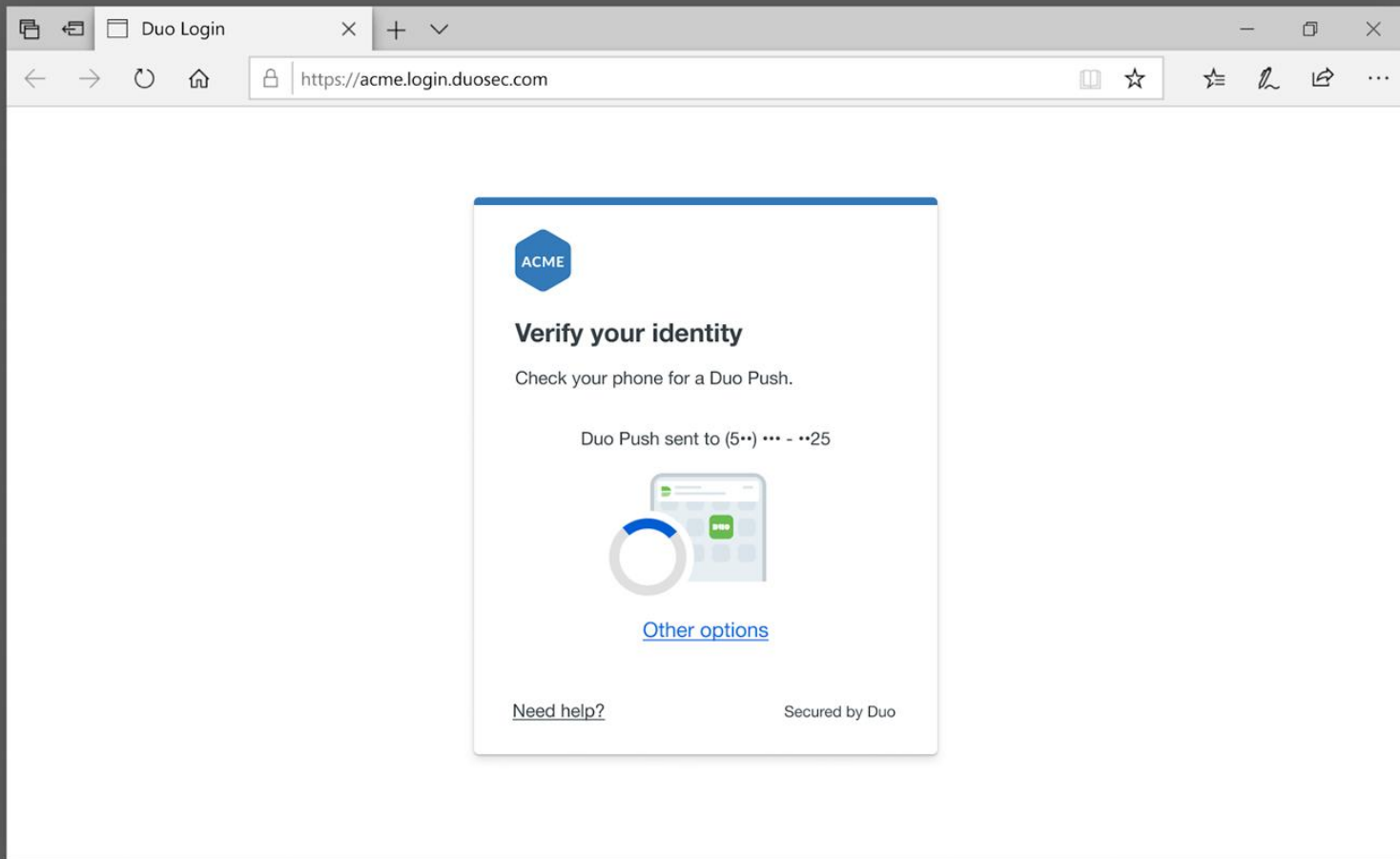


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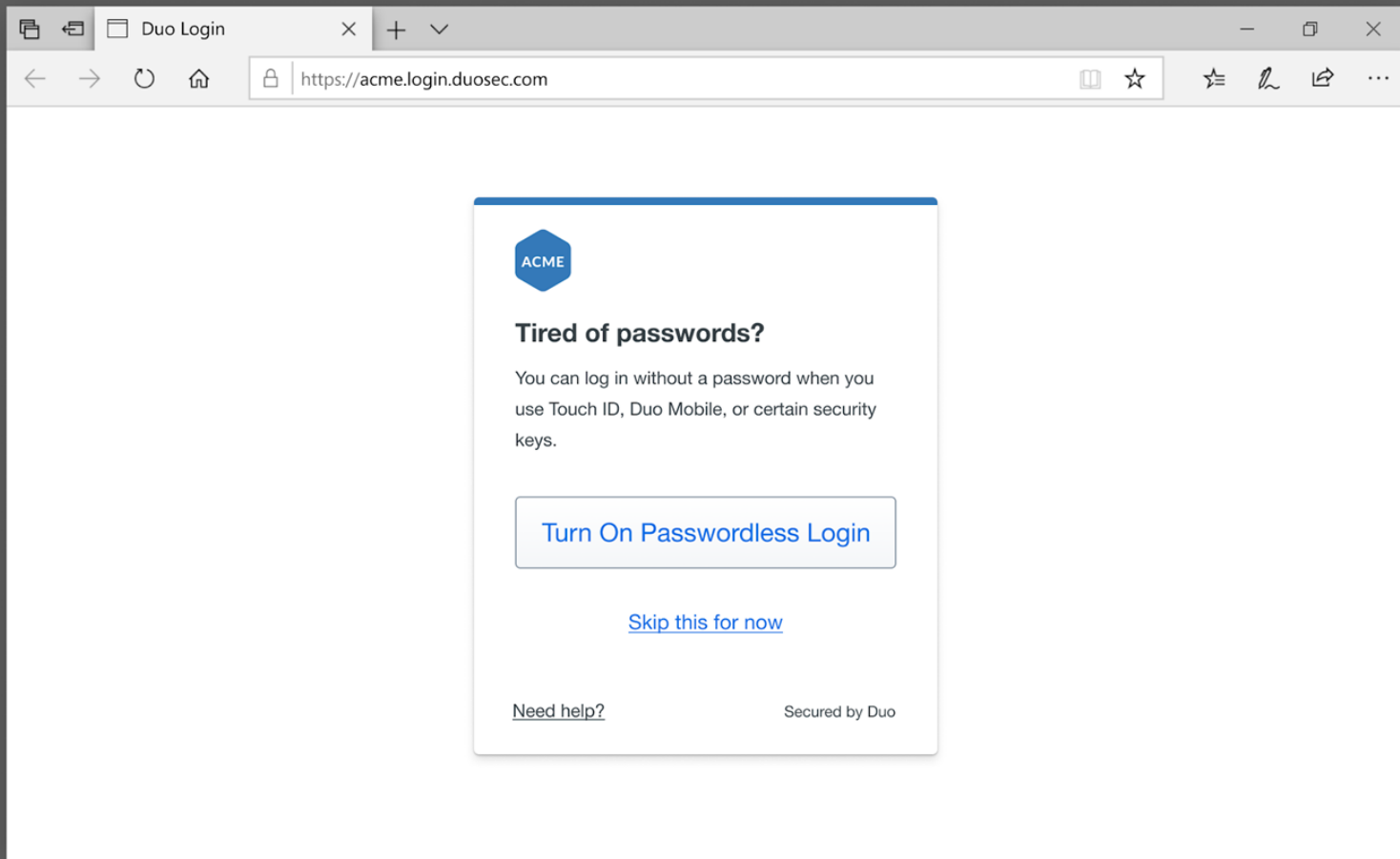


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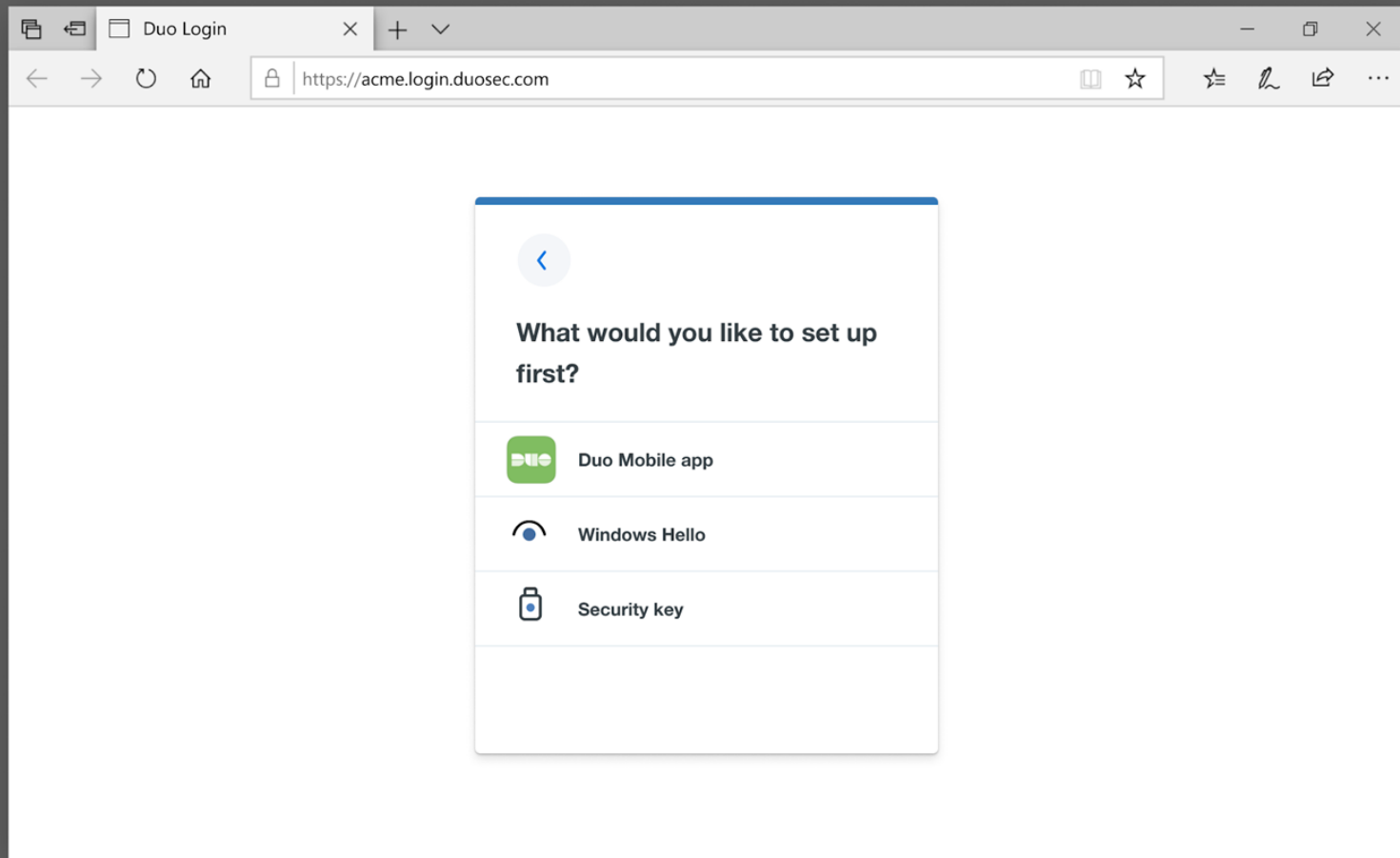


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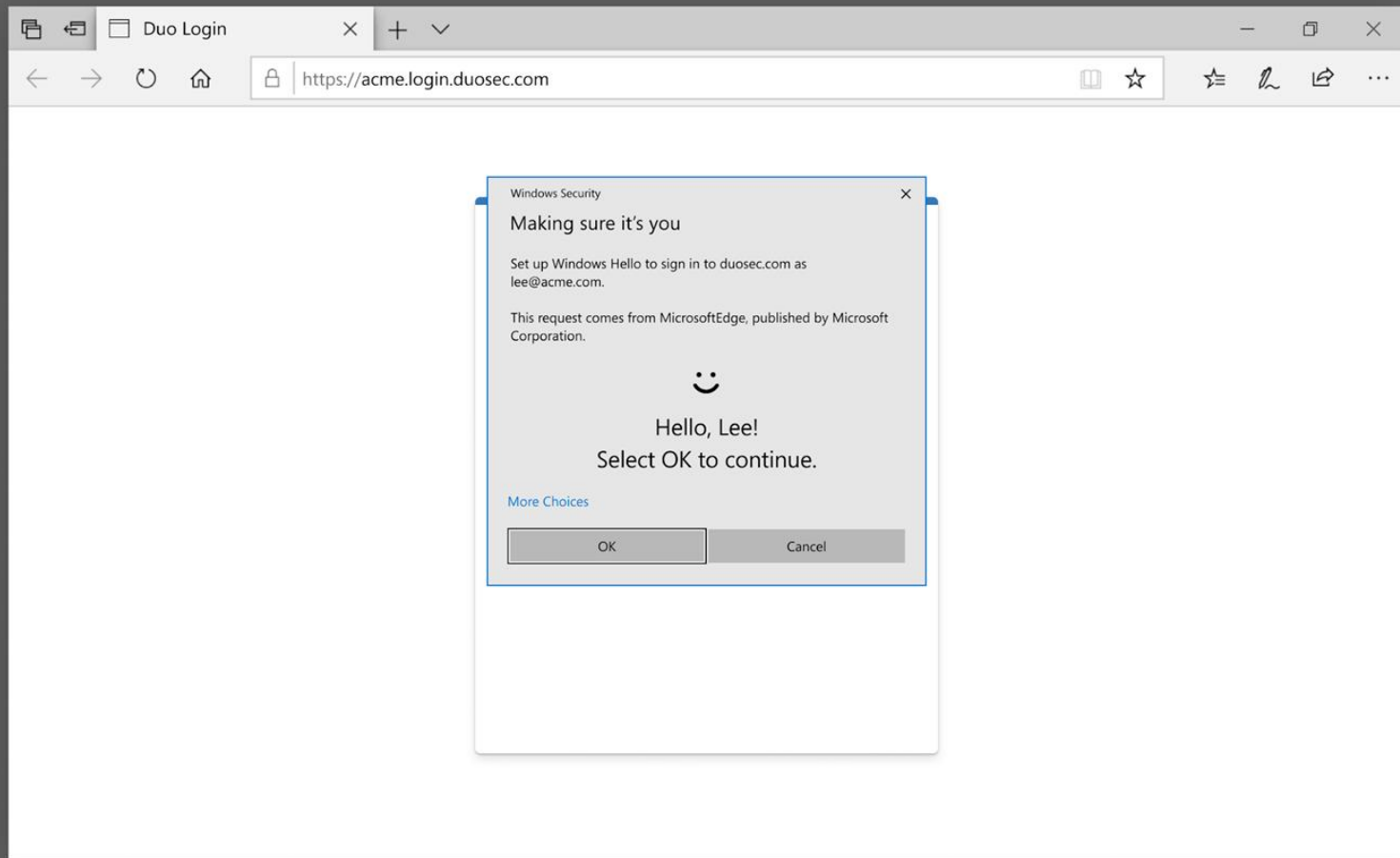


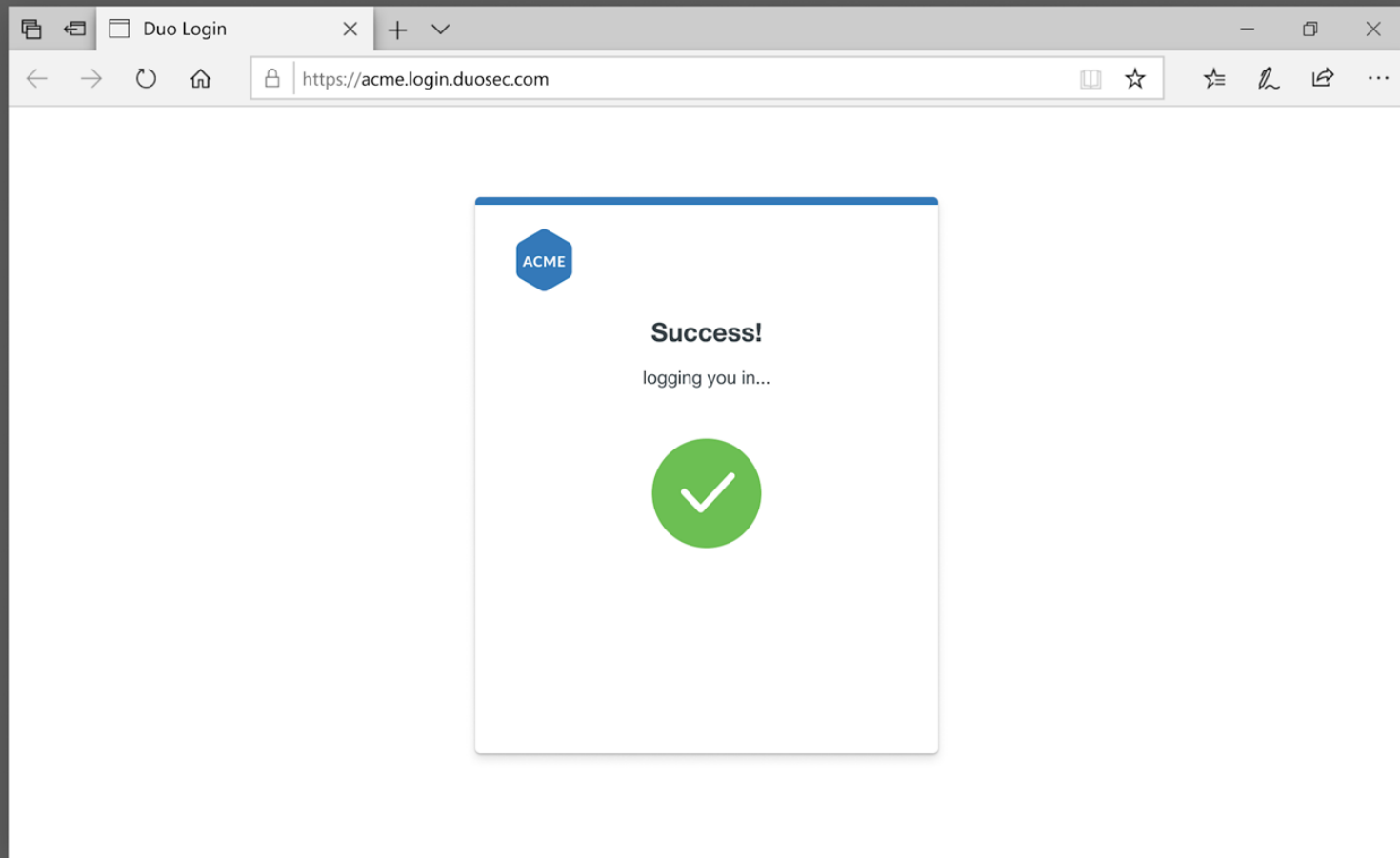
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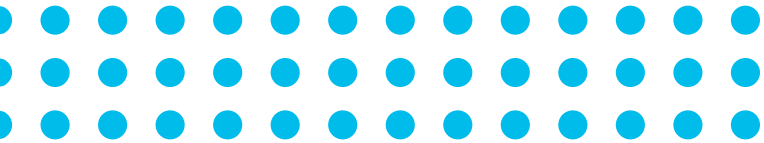
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7/2/2020



Authentication





Search

cdemundo



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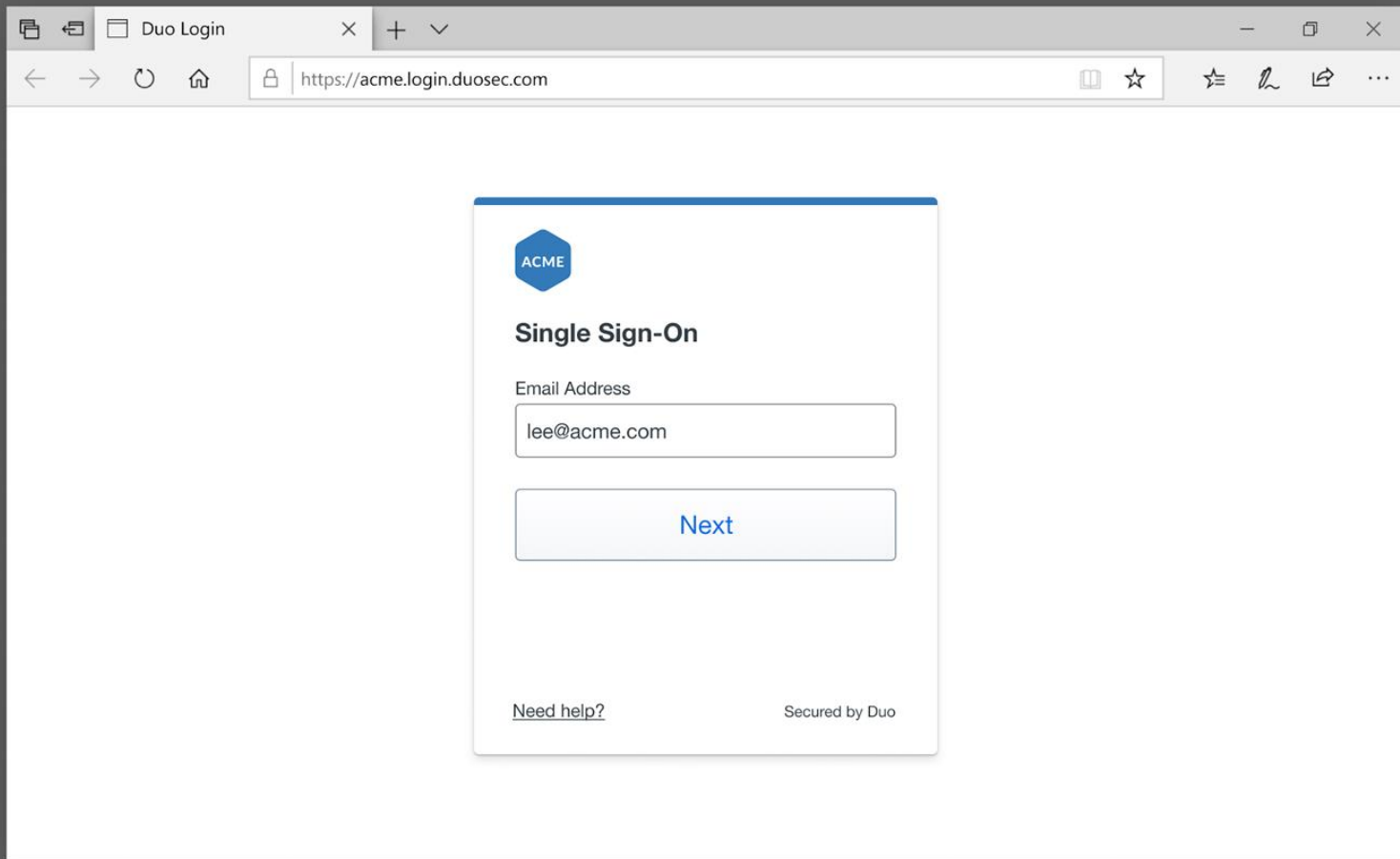


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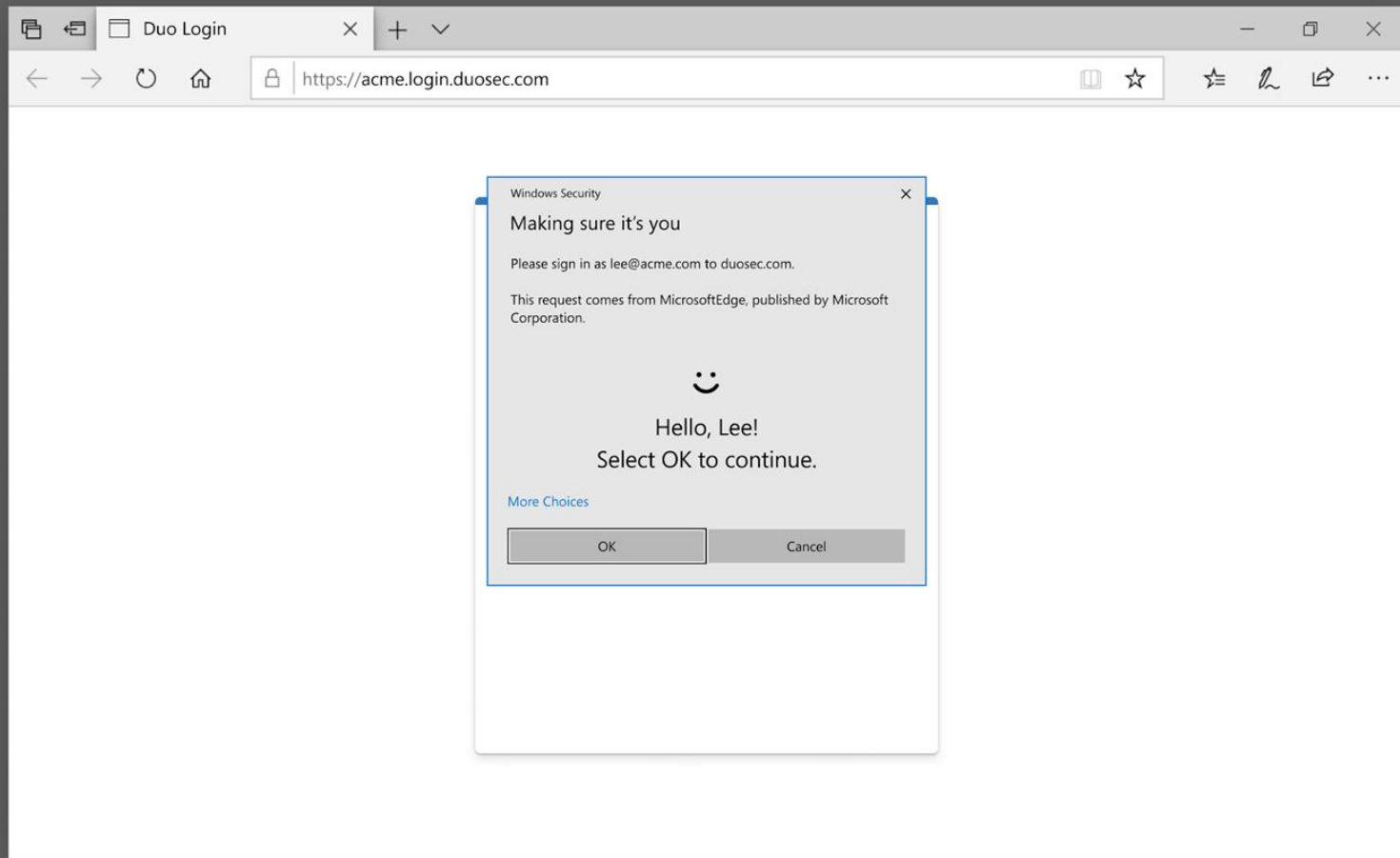


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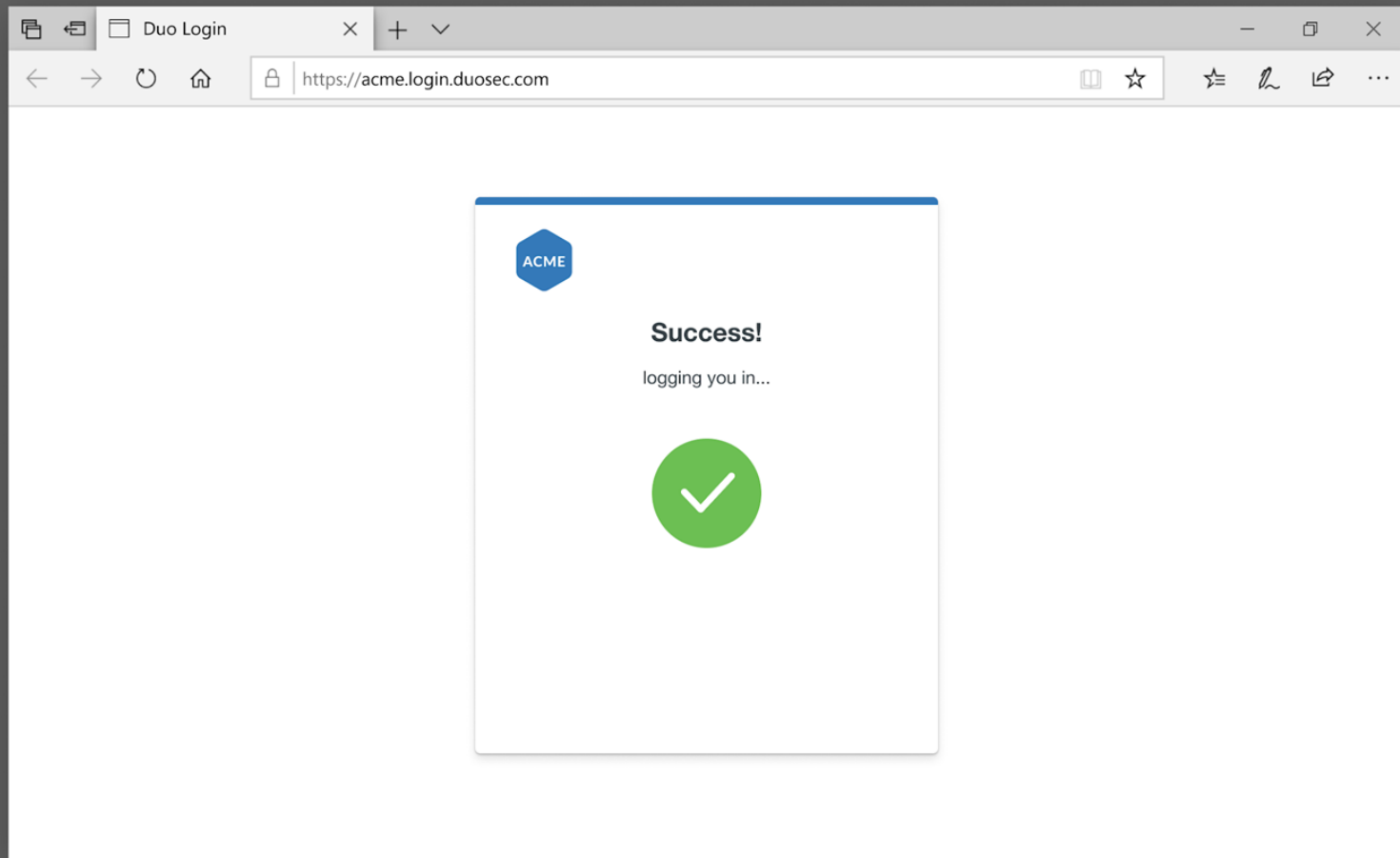


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7/2/2020





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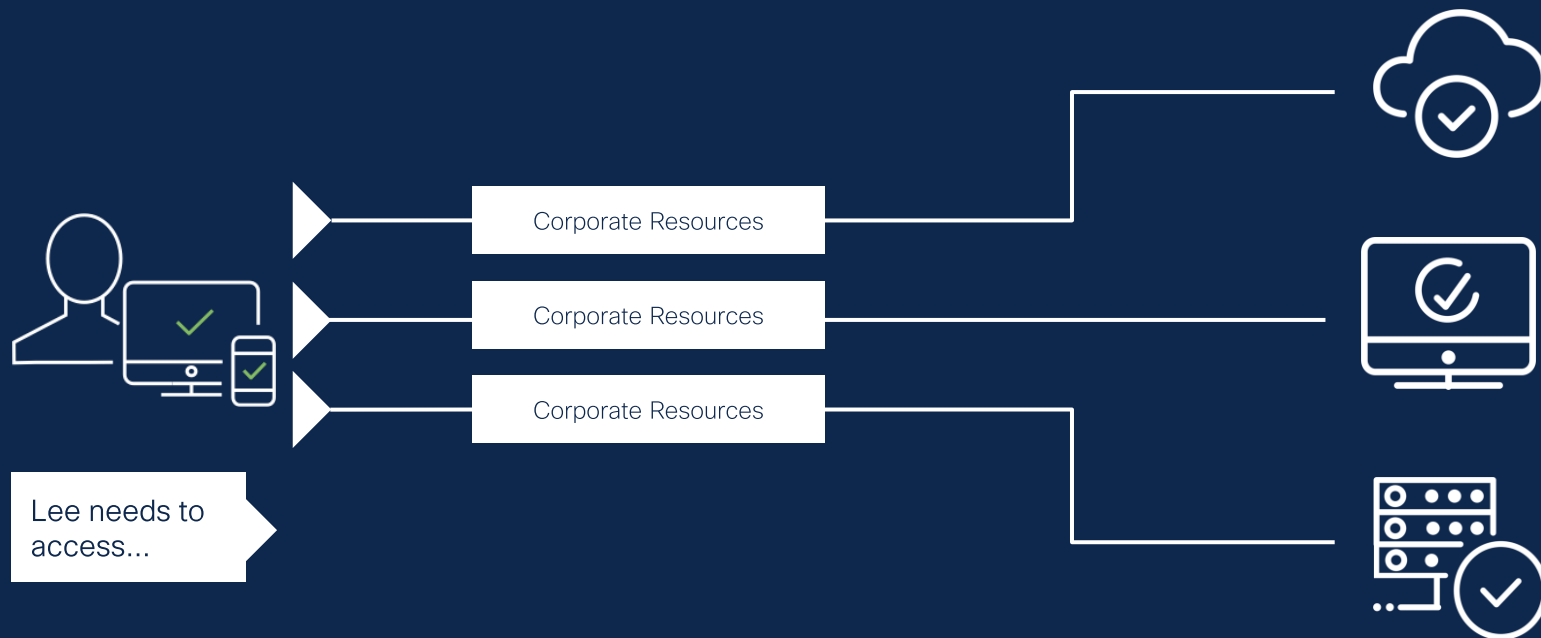
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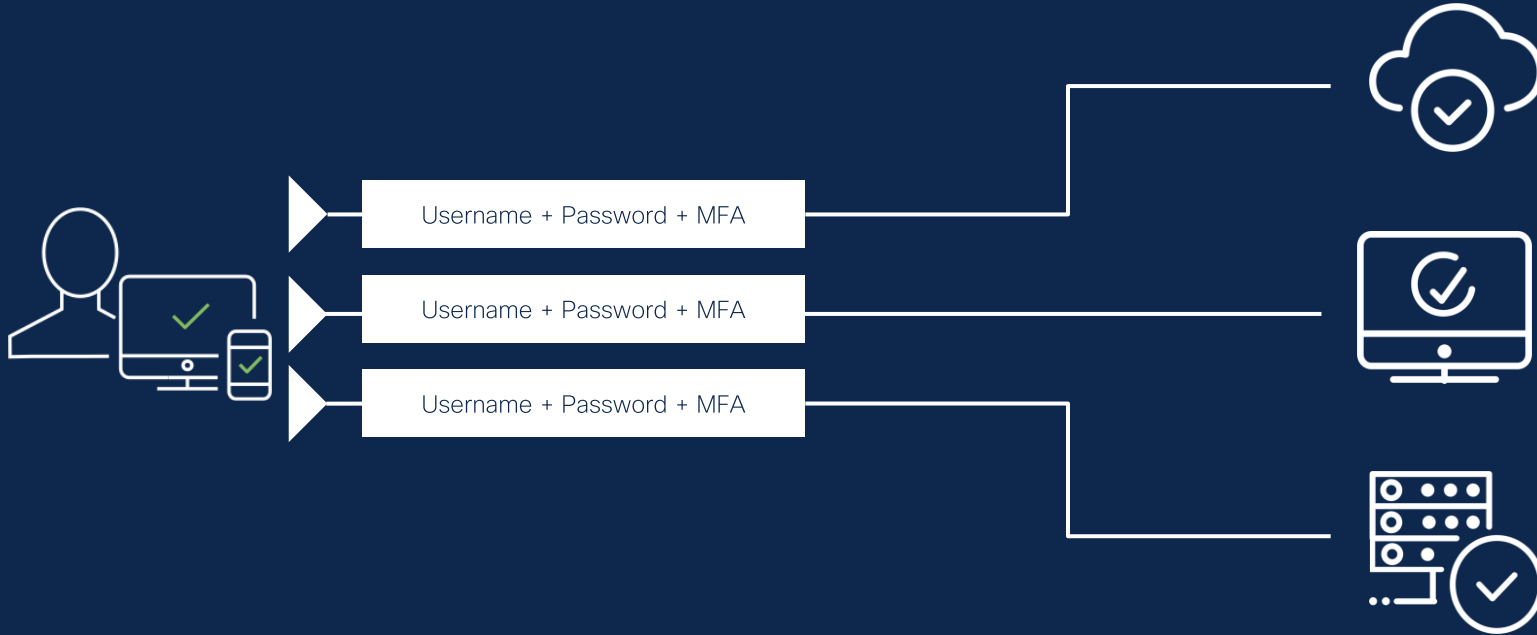
But, improving access
security requires more than
just passwordless.



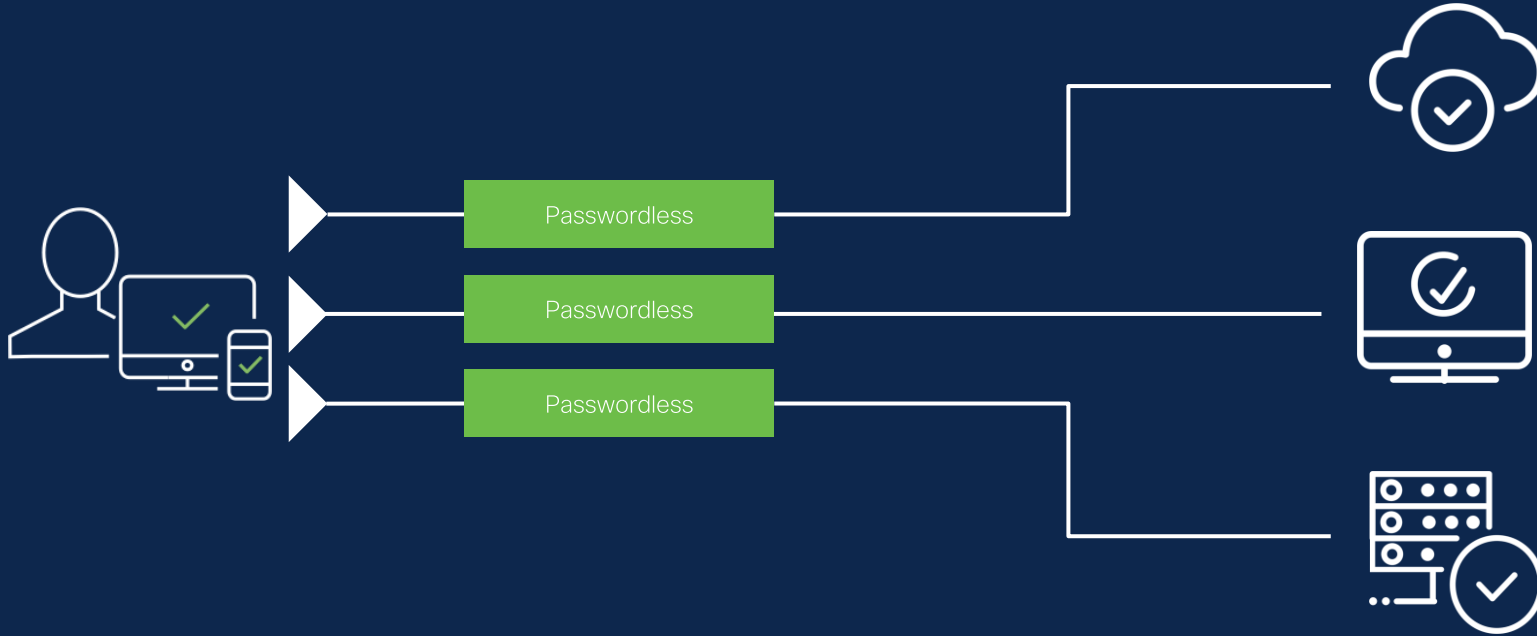
Picture this...



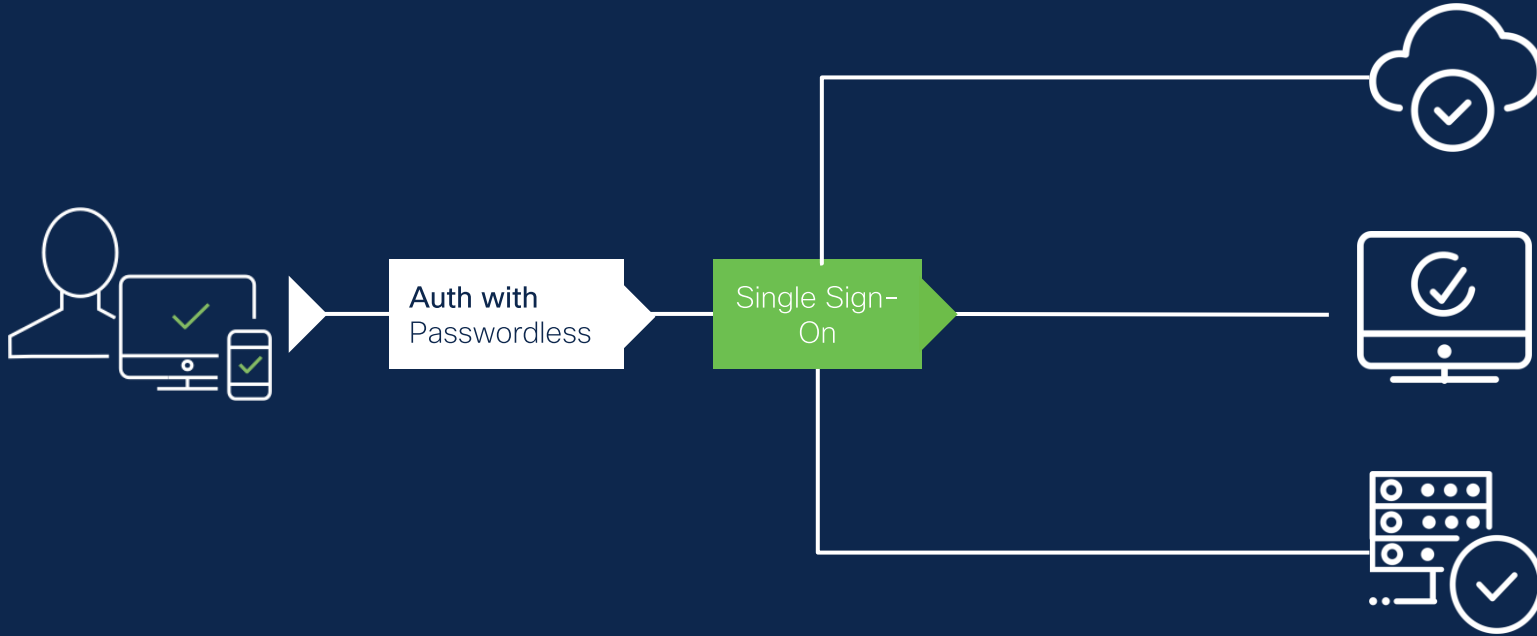
The current situation



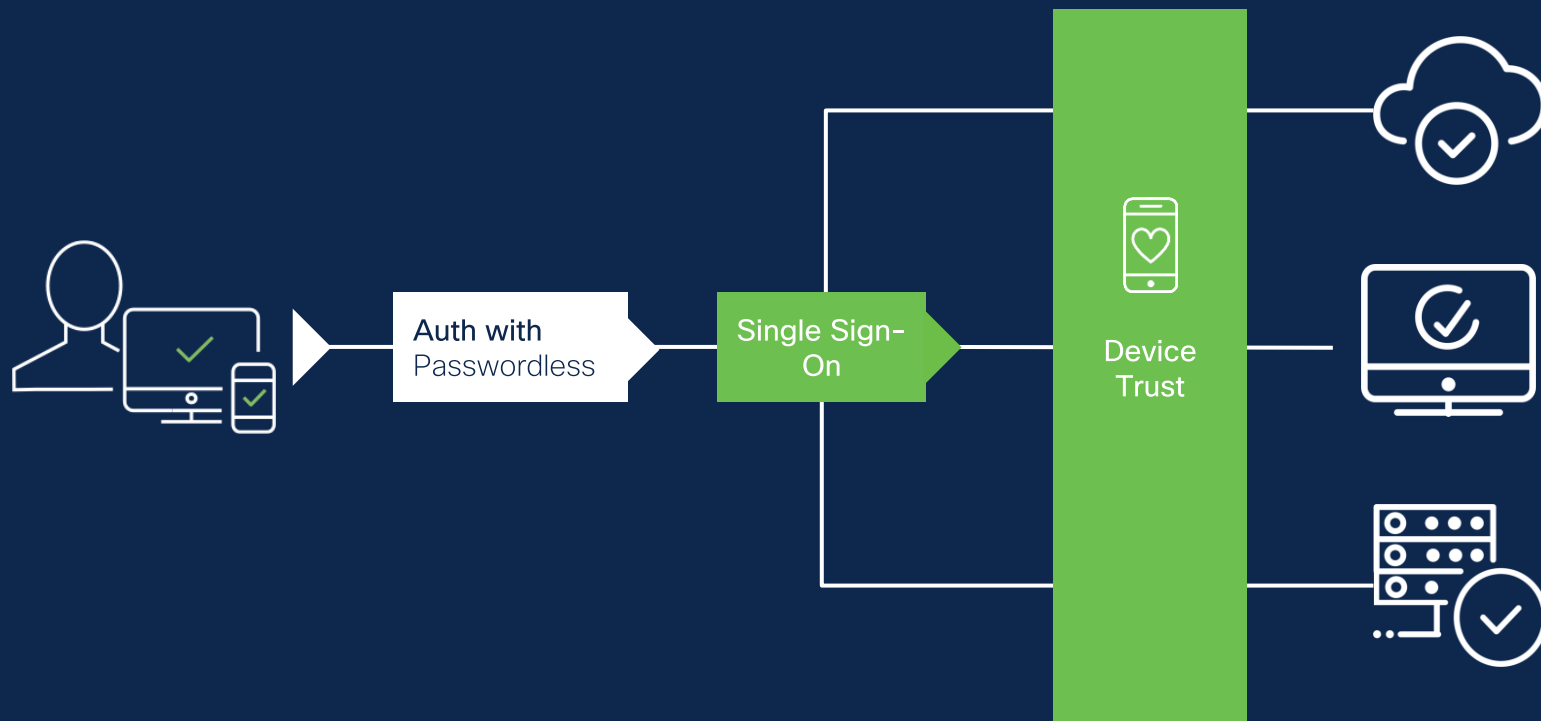
A step in the right direction...



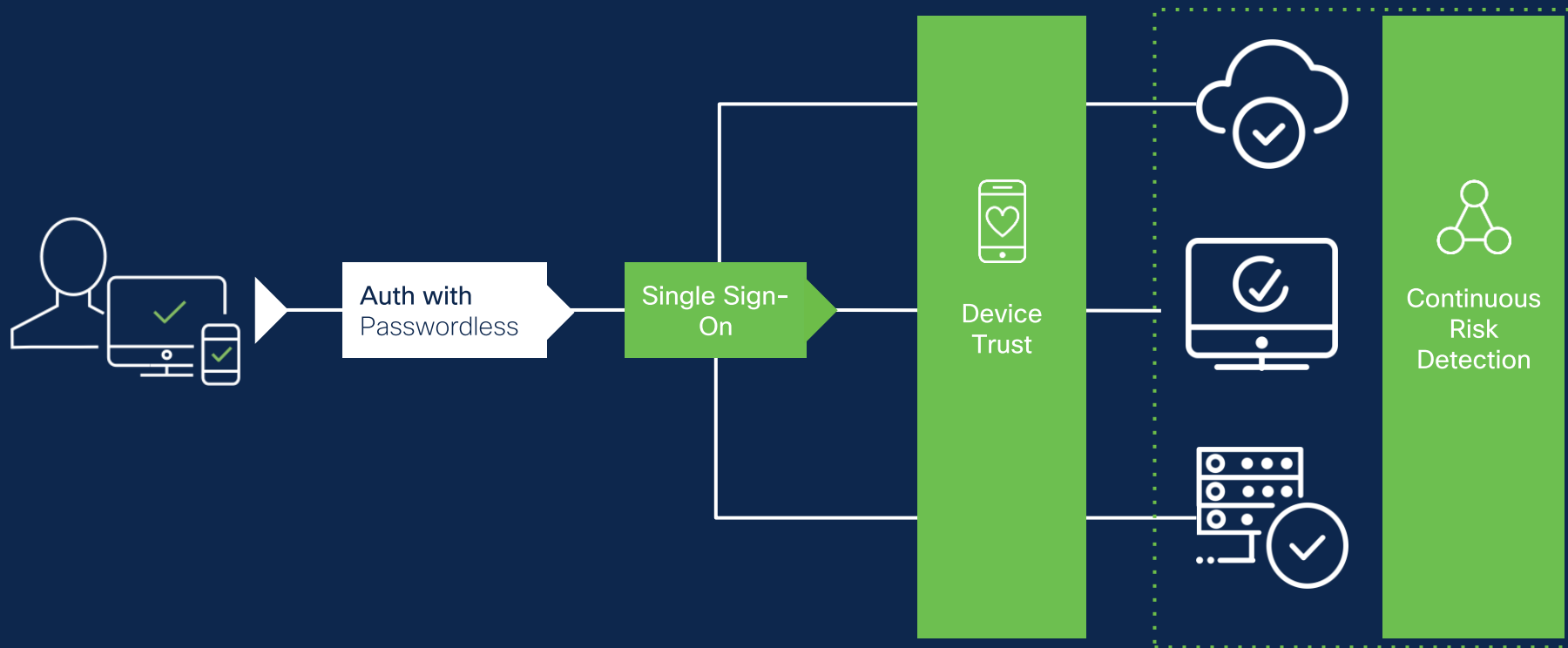
Reduce Authentications



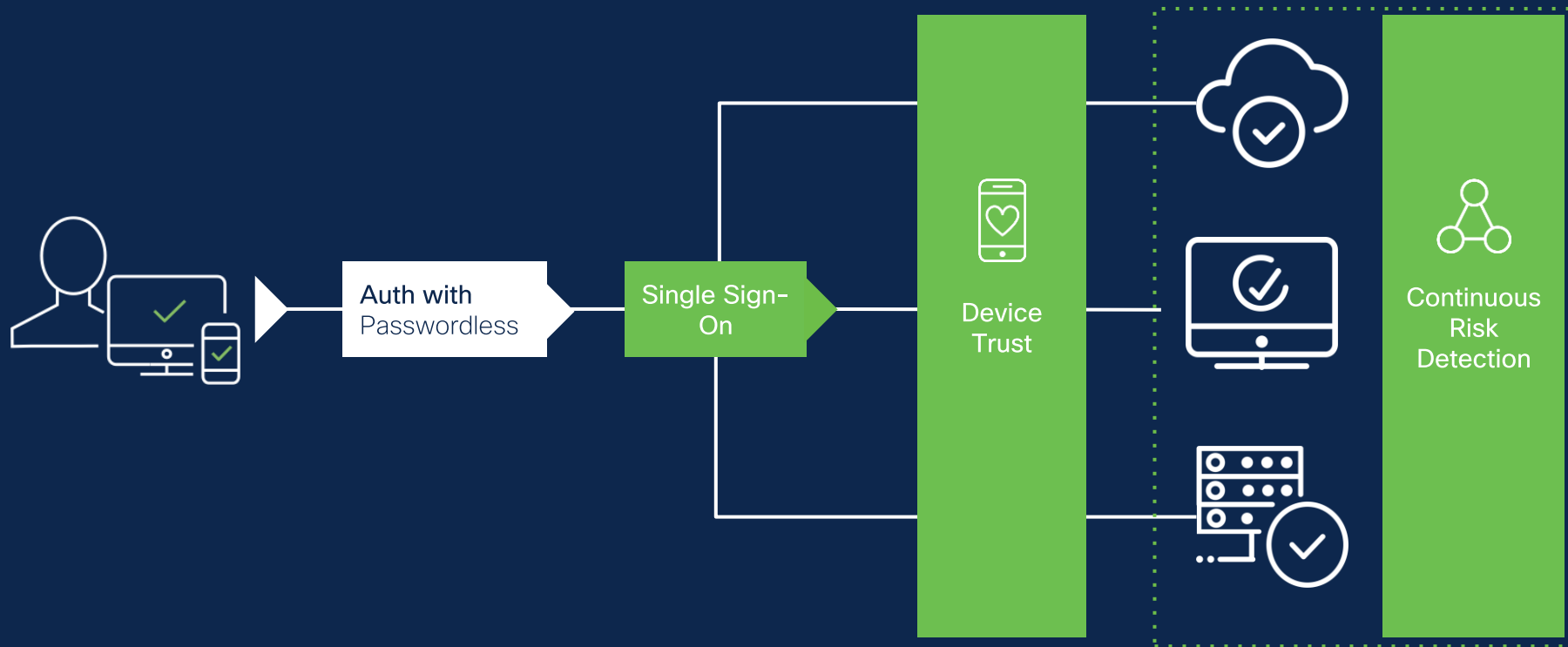
Increase device trust



Monitor access risk



Continuous trusted access



What's Next?

Thick Clients



Expand Passwordless to applications accessed through **embedded browsers**.



What's Next?

Thick Clients



Expand Passwordless to applications accessed through **embedded browsers**.

Desktop Logins



Launch Passwordless for OS authentication.



What's Next?

Thick Clients



Expand Passwordless to applications accessed through **embedded browsers**.

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Risk-Based Authentication



Adapt permitted authentication experience based on **contextual risk factors**.



