

Innovation in Authentication and more!

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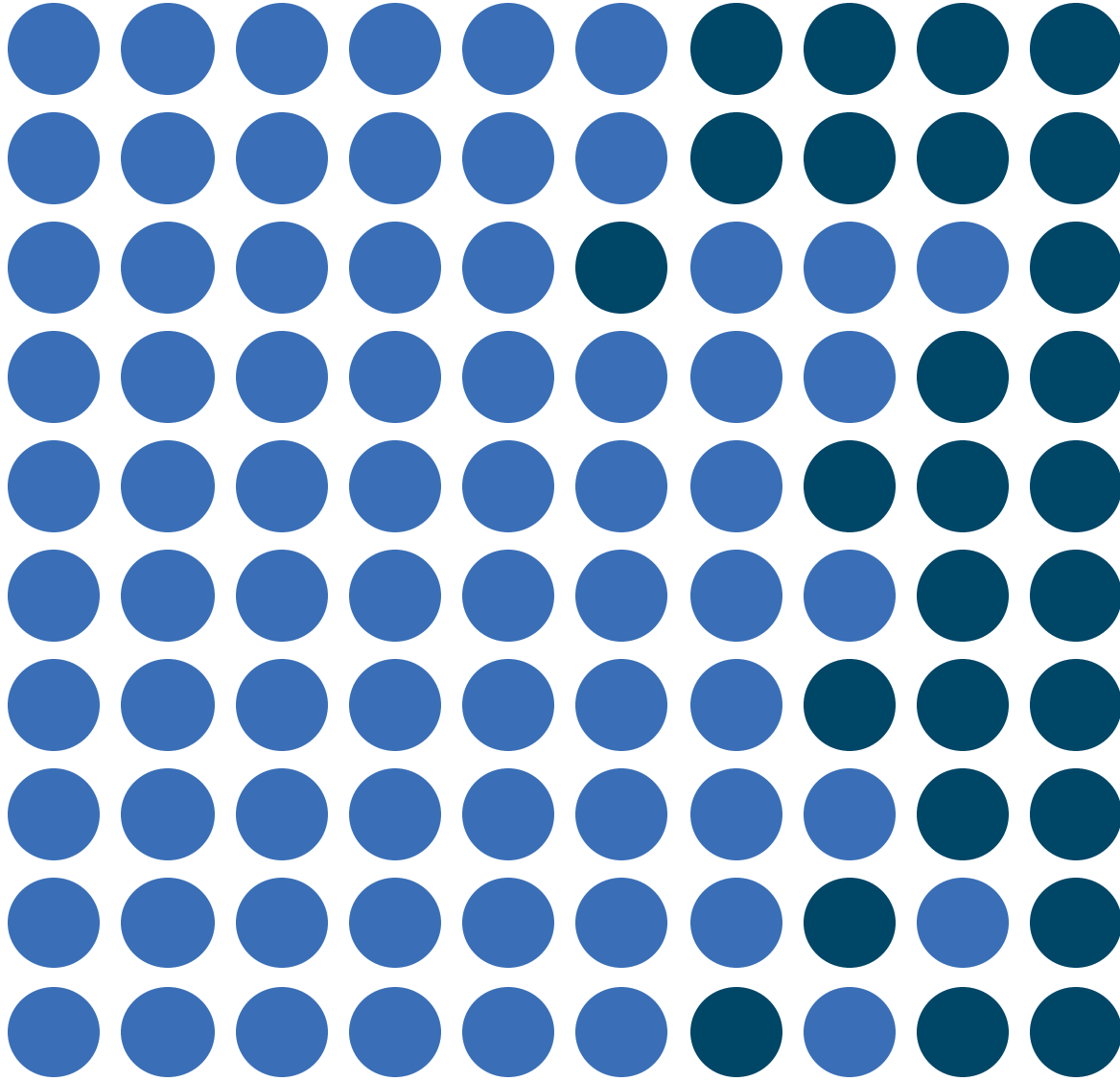
Head of Passwordless, Cisco Duo

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80%

of breaches **leveraged identity** as a key component

Cisco Talos Incident Response Data 2023-2024

Key Challenges in Workforce Authentication

Limited Visibility

- *Opaque identity infrastructure*
- *No centralized insights*
- *Noisy or isolated alerts*

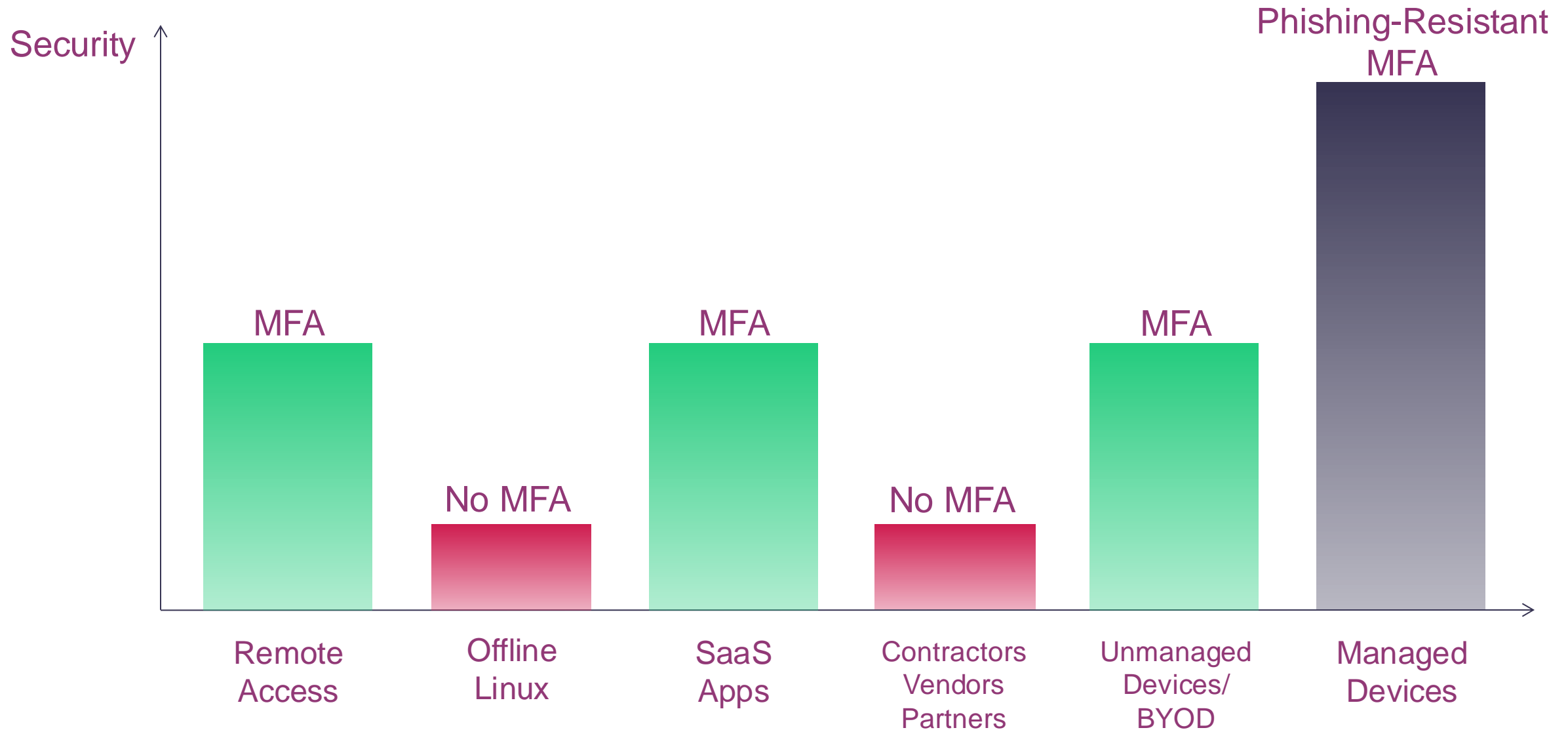
Gaps in Protection

- *MFA coverage incomplete*
- *Weak forms of MFA*
- *Limited Device Trust*

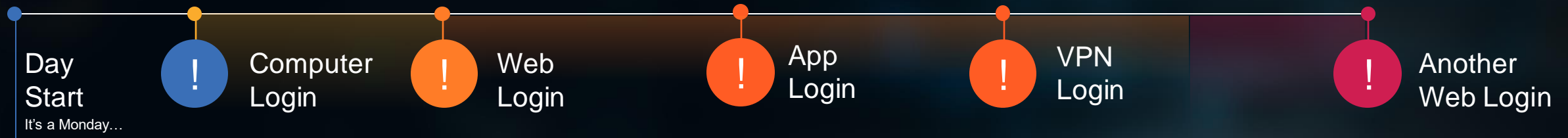
Frustrating Experience

- *High user friction*
- *Increased IT burden*
- *Clunky configuration*

Challenge: Gaps in Protection



Challenge: Frustrating User Experience



Users are subjected to cumbersome username + password + 2FA prompts many times throughout their day.



Challenge: Frustrating Admin Experience

End User frustration becomes Admin frustration



Improvements in Steps

The Status Quo



Onboarding

- *Human-centric IDV*
- *Phishable authenticator registration*

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Passwords for Auth

- *Phishable passwords*
- *Phishable 2FA*

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Session Tokens

- *Easily stolen*
- *Endpoints require additional protections*

Passkeys leading the charge...



Onboarding

- *Human-centric IDV*
- *Phishable authenticator registration*

+



Passkeys for Auth

- *Strong phishing resistance*
- *Uneven availability*

+



Session Tokens

- *Easily stolen*
- *Endpoints require additional protections*

...with safer sessions on the way!



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Onboarding

- *Human-centric IDV*
- *Phishable authenticator registration*



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Passkeys for Auth

- *Strong phishing resistance*
- *Uneven availability*



Device-Bound Sessions

- *Tokens bound to endpoints (DBSC)*
- *Real-time security event sharing (SSF)*

Achieving End-to-End Passwordless

The Unphishable World of Tomorrow



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Onboarding

- *Verifiable Presentation*
- *Strong phishing resistance*
- *Certifiable Issuance*



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Passkeys for Auth

- *Strong phishing resistance*
- *Uneven availability*



Device-Bound Sessions

- *Tokens bound to endpoints (DBSC)*
- *Real-time security event sharing (SSF)*

Verifiable Credentials

- <https://openid.net/sg/openid4vc>
- <https://www.w3.org/TR/vc-data-model-2.0>
- <https://identity.foundation>

Passkeys

- <https://fidoalliance.org/passkeys>
- <https://passkeys.dev>
- <https://webauthn.io>

Device-Bound Session Credentials

- <https://github.com/WICG/dbsc>

Shared Signals Framework

- <https://sharedsignals.guide>



Thank you



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