RS/Conference2019

San Francisco | March 4-8 | Moscone Center



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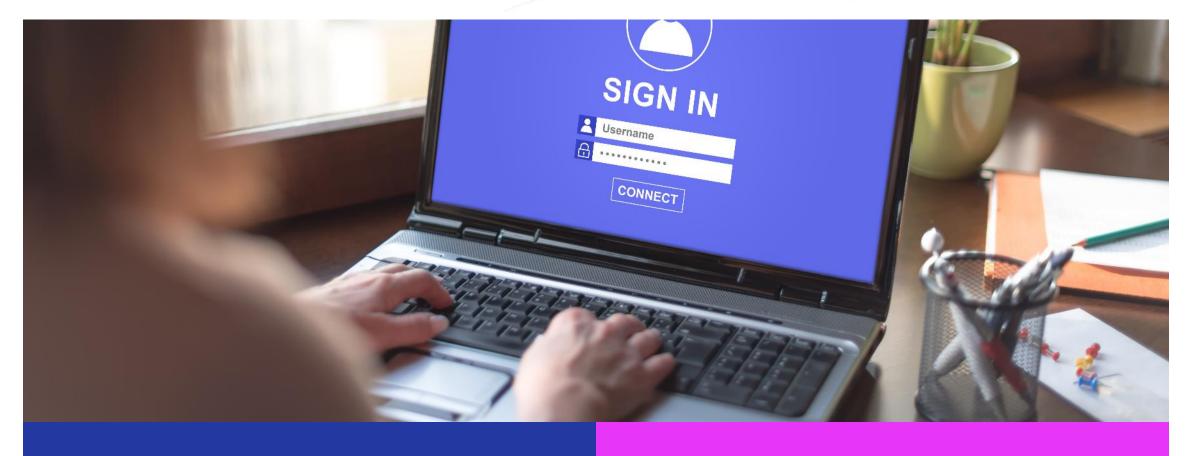
Identity and Access Management (IAM) Emerging Trends and Standards

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Director of Technology RSA #RSA







50-60 BILLION IDENTITIES

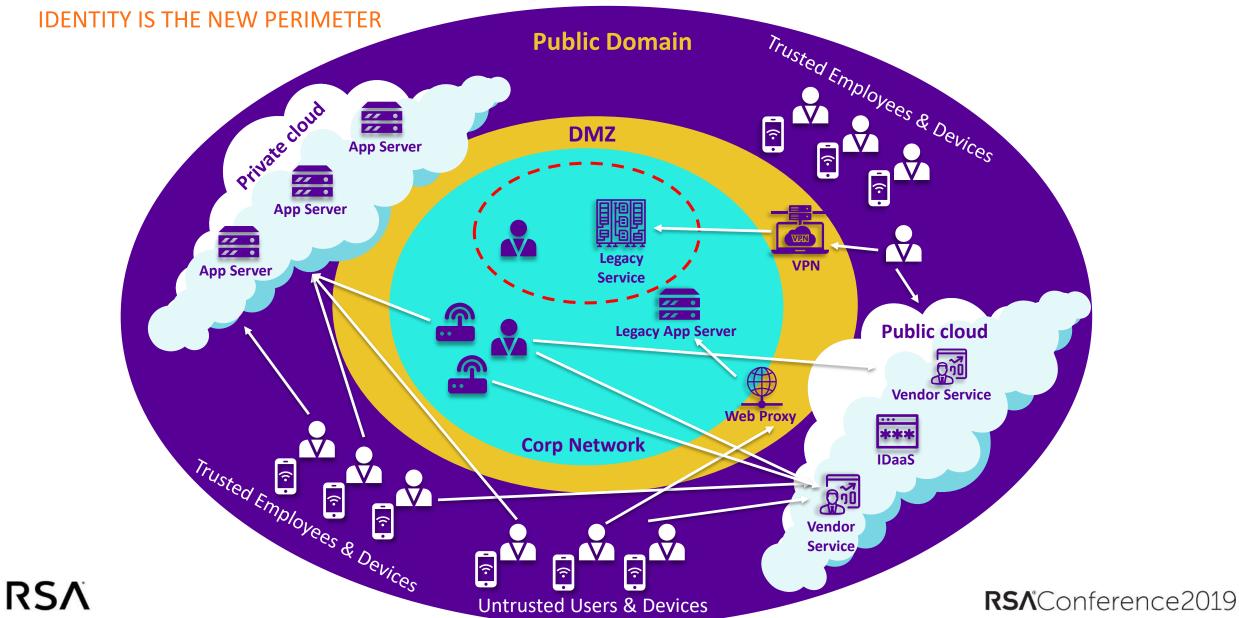
Collectively held worldwide (IDC)

191 ACCOUNTS

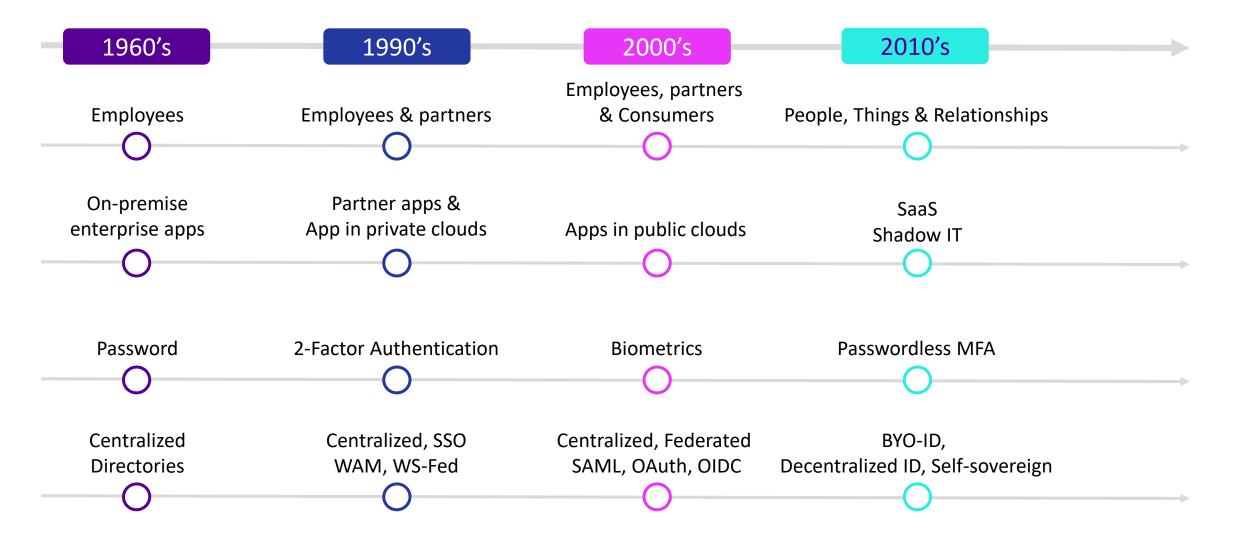
Per average business employee (LastPass)



Digital transformation is driving a new reality...



How did IAM evolve over time



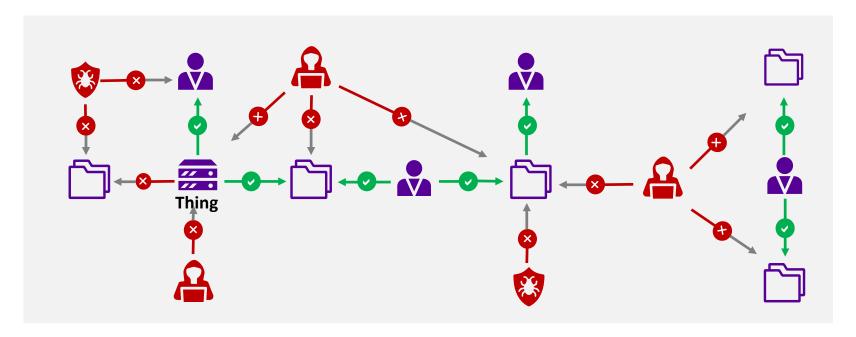






The goal of IAM today

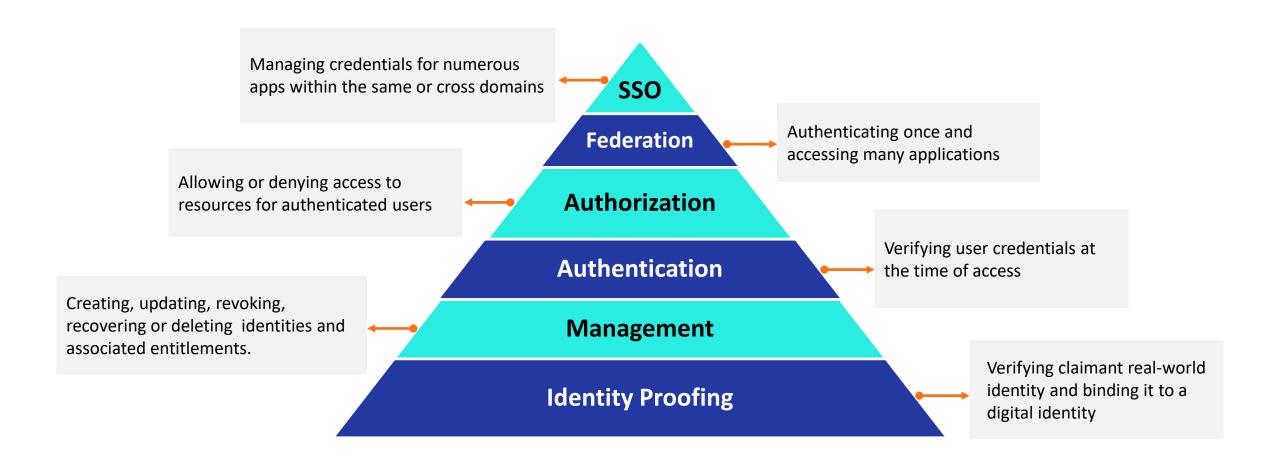
Ensure that the **right people and "things"** get access to the **right resources** (applications, data, and so on) at the **right times**, from the **right device** and **location** for the **right reasons**.



Protected resources: apps, data, services, devices, etc.



IAM key functionality





New approaches to manage digital identity risk

Remote Identity Proofing

Passwordless Authentication

Identity Risk Analytics

Federated Identity and SSO

Identity-as-a-Service (IDaaS)

Bring Your Own Identity (BYO-ID)

Continuous Authentication

Identity of Things

Zero-Trust

Self-Sovereign Identity





TREND#1: Remote identity proofing



In-Person

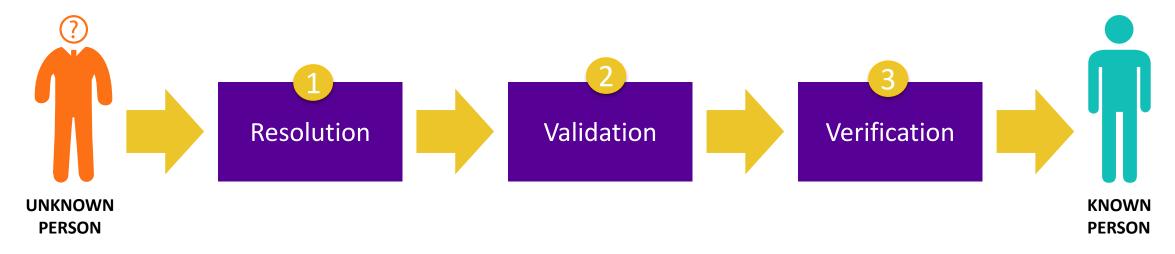


Remote



TREND#1: Remote identity proofing

METHODS



Electronic Government Issued Documents	BYO-ID	National Biometric	Trusted
	Trusted Identity	Databases	Referee
Enhanced	Identity Reputation	Behavioral	Proof-Of-
Dynamic KBA	& Graph Analysis	Analysis	Possession



Relevant Standards/Guidelines/Regulations

TREND#1: Remote identity proofing

Benefits



Efficient onboarding and account creation processes

Flexible workforce

Reduced fraud and identity theft

Cost-effective and easier credential recovery processes



A long-standing goal

Eliminating the need for centrally managed passwords

Gaining real market visibility

FIDO2 and W3C WebAuthn API support in browsers and platforms

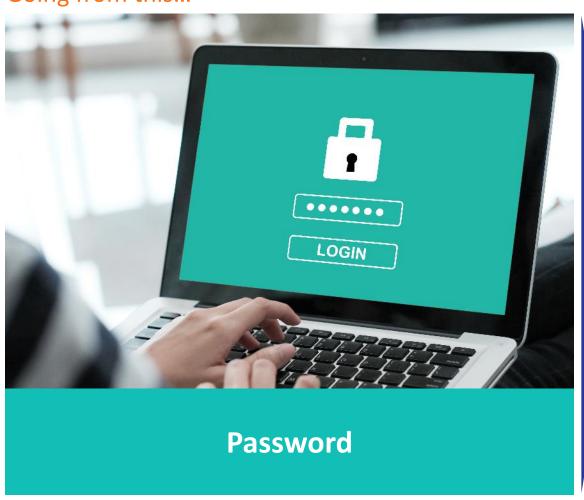








Going from this...

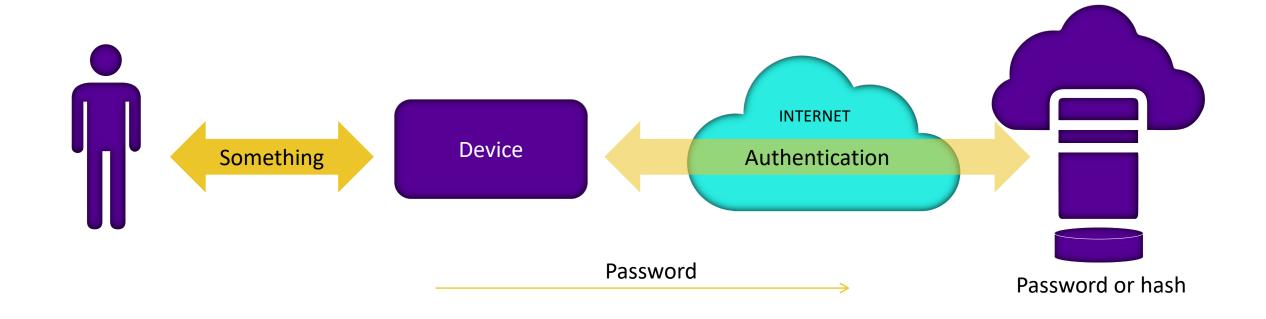


To this...



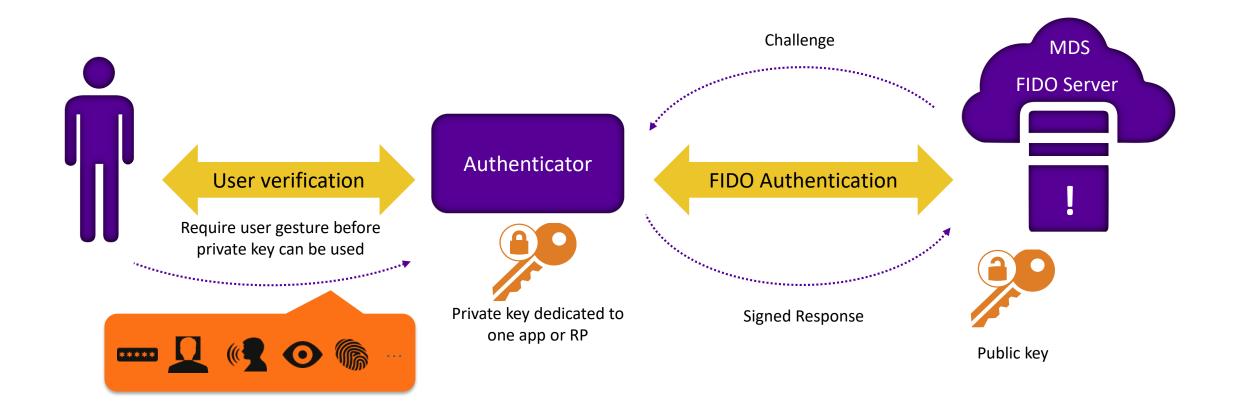


TRADITIONAL ONLINE AUTHENTICATION



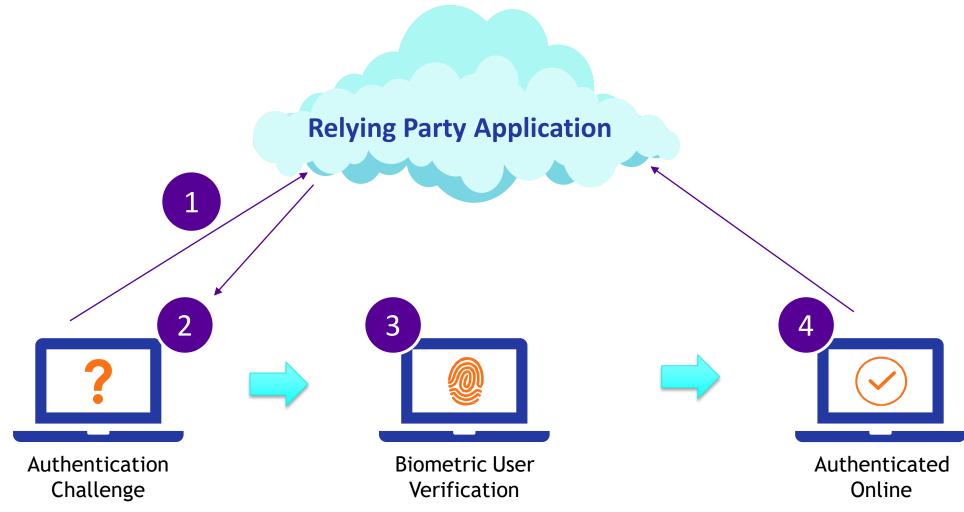


HOW FIDO IS DIFFERENT





PASSWORDLESS AUTHENTICATION WITH FIDO





FIDO Benefits





Convenience

- Simple gestures
- Single authenticator for multiple apps



Security

- No secrets on server
- MITM protection
- Phishing protection

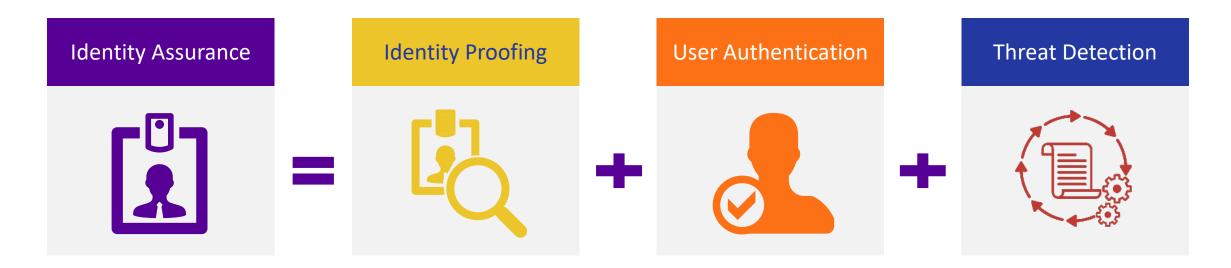


Privacy

- No PII
- Local biometric
- Non-likability between RPs



TREND#3: Identity assurance with risk analytics



Detect anomalous user behavior



TREND#3: Identity assurance with risk analytics





TREND#3: Identity assurance with risk analytics

Benefits



Reduce and manage risk

- Detecting insider threats
- Stopping attackers using compromised credentials

Provide a better CX and UX

- Reducing administration overhead of access policies
- Providing frictionless user experience when risk is low



TREND#4: Federated identity and SSO

EXPERIENCING RAPID ADOPTION

Well-established Federation protocols





- Increased adoption of the cloud
- Increased number of applications and passwords
- Increased workforce distribution

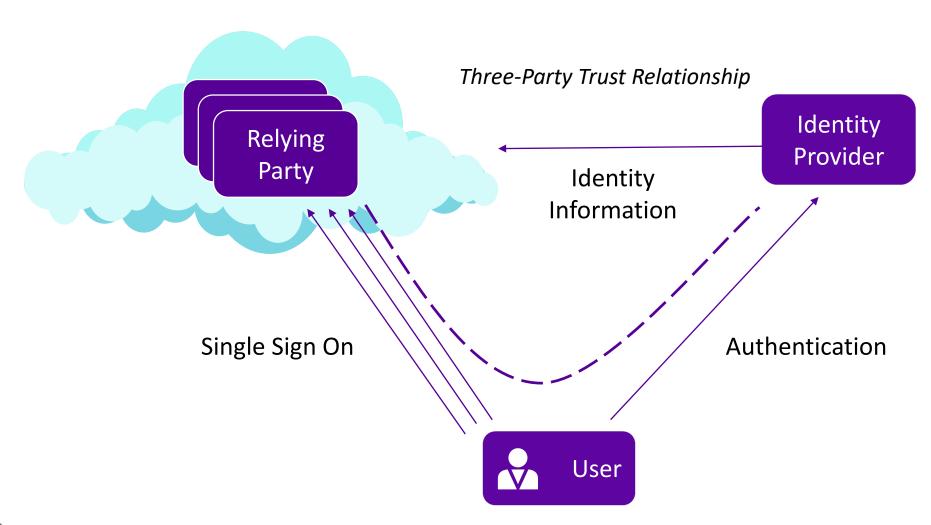


Need for seamless, secure and controlled access to applications across multiple security domains



TREND#4: Federated identity and SSO

HOW FEDERATED IDENTITY ADDRESSES THESE NEEDS?





TREND#4: Federated identity and SSO

Benefits





User

- Sign in once and access multiple applications
- Increased productivity



Relying Party

 Move user identity risk and liability to trusted thirdparty authorities



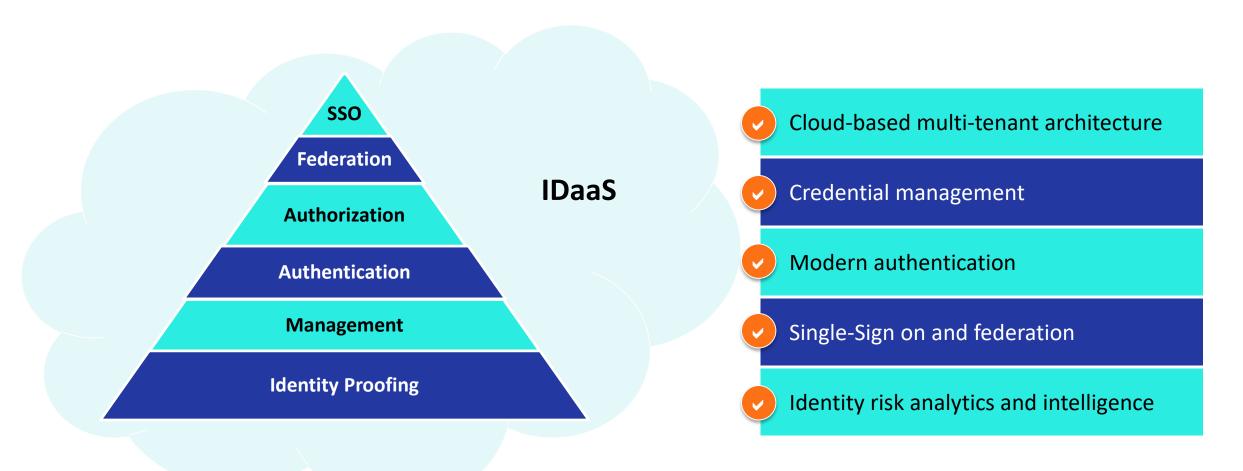
Identity Provider

- Link user identity to multiple relying parties
- Enforce enterprise policies
- Enable SSO
- Protect user personal info

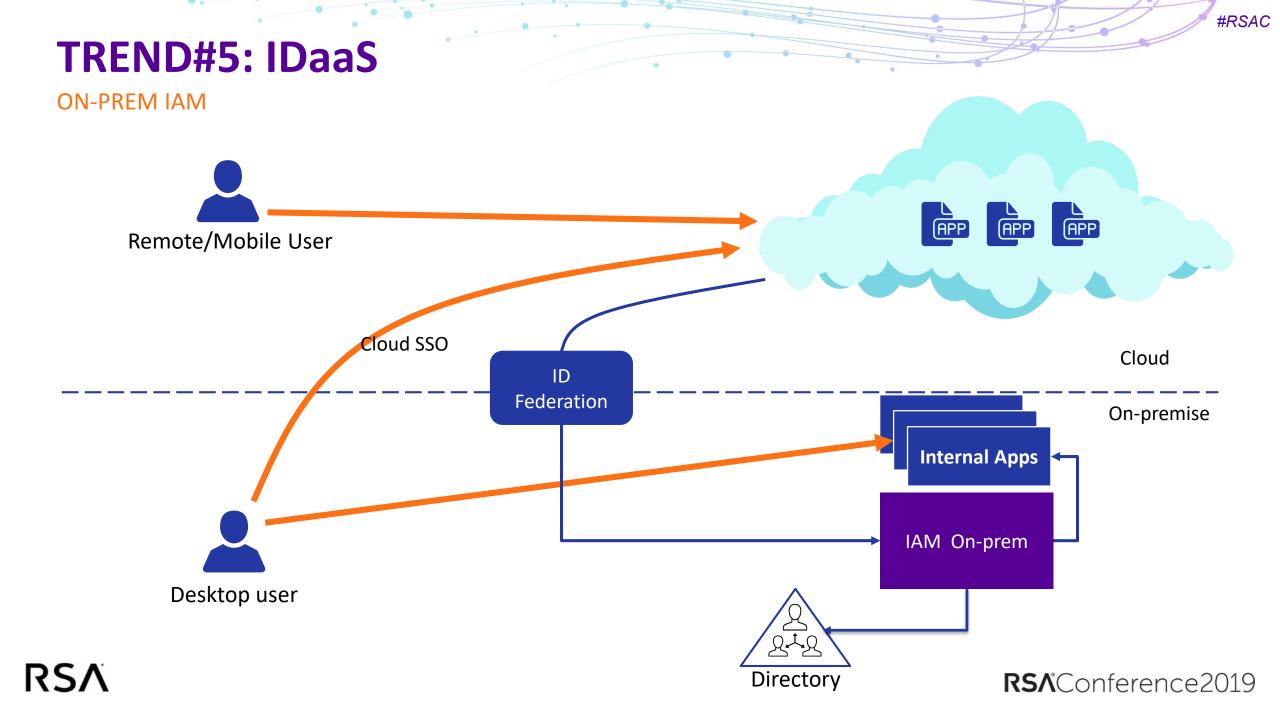


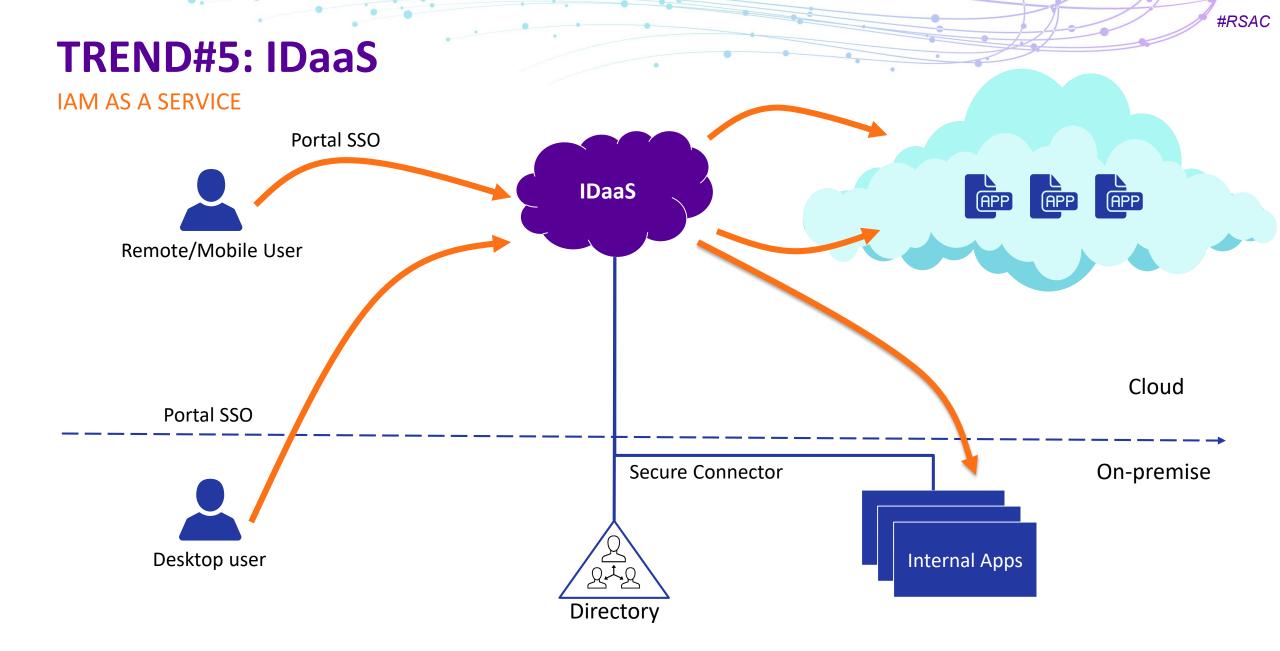
TREND#5: IDaaS

IAM SERVICES HOSTED AND MANAGED BY A THIRD-PARTY CLOUD VENDOR











Benefits



Organizations

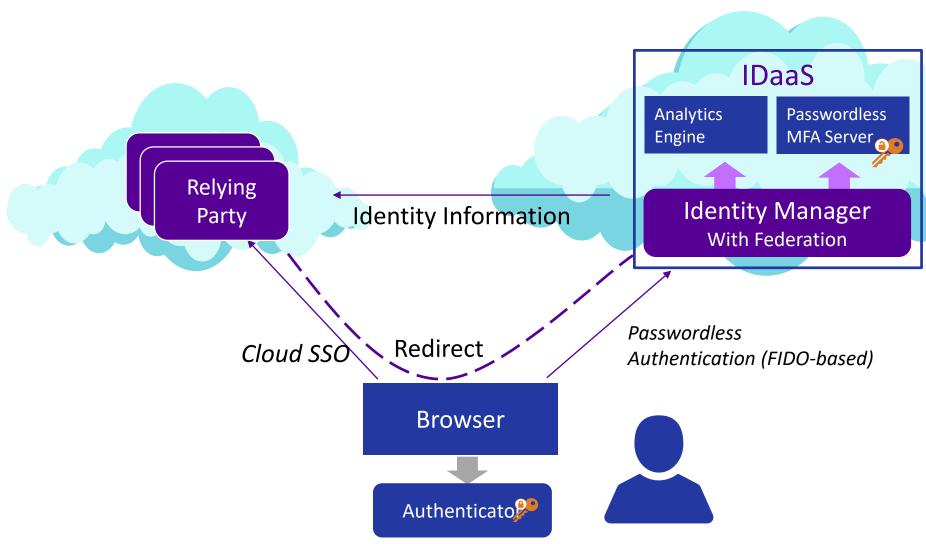
- Leverage advanced IAM capabilities
- Manage applications and entitlements using easy and simple tools
- Fill security/identity management skills gaps
- Reduce cost

Users

- Access the same apps using the same authentication methods from anywhere
- Leverage self-service interfaces



Putting it all together

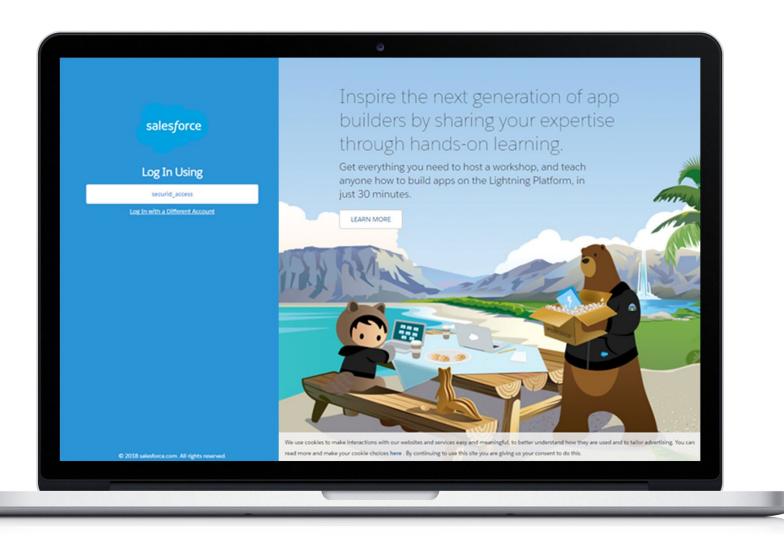






Putting it all together – in action

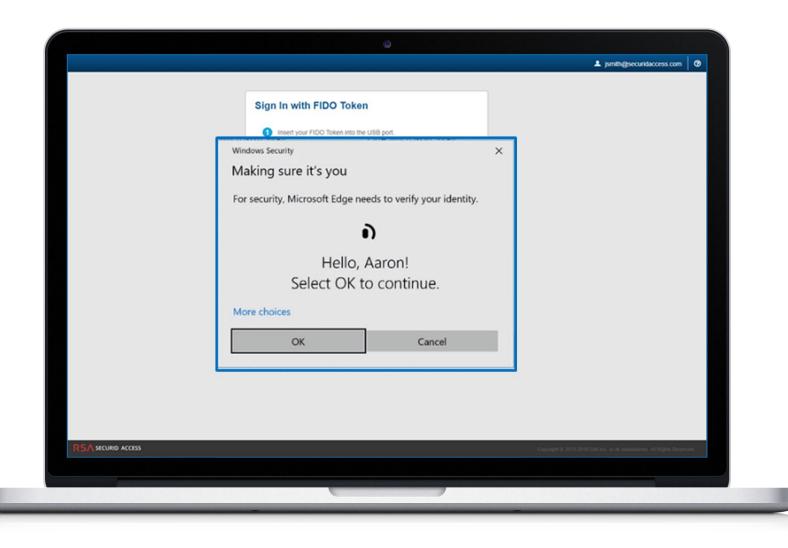
APPLICATION PROVIDER LOGIN PAGE





Putting it all together - in action

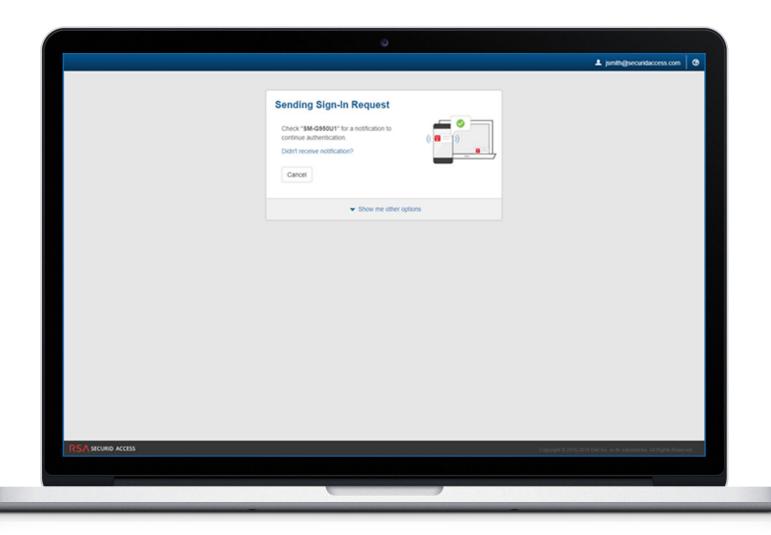
IDAAS PROVIDER AUTHENTICATION PAGE – USING FIDO2/HELLO





Putting it all together – in action

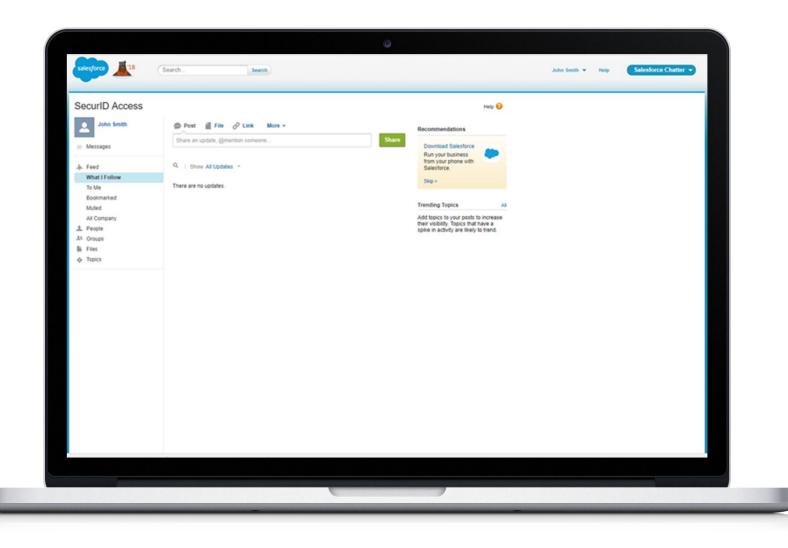
RISK-BASED/STEP-UP AUTHENTICATION







Putting it all together - in action





Adapt Now!

DIGITAL TRANSFORMATION REQUIRES NEW METHODS TO MANAGE IDENTITY RISK

THIS WEEK

Attend relevant sessions on

- Digital identity risk management
- Passwordless authentication
- Identity analytics for risk awareness
- Zero trust

NEXT SIX MONTHS

Get familiar with emerging standards

FIDO2, CTAP2 and W3C WebAuthn

Adopt or demand that your IDaaS provider adopts

- Passwordless authentication
- Identity and risk analytics
- Federation and SSO
- Remote identity proofing



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