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Sieťový perimeter je mŕtvy, je treba uplatňovať princíp Zero Trust

#MFA #IAM #OTP #FIDO #PKI #Biometrics

Petr Kunstát, Thales CEE www.thalesgroup.com





Jsme nepoučitelní

State of MFA in 2022

43.2% of companies do not use Multi-Factor Authentication (MFA)

2

11.4% of companies do not plan to acquire MFA within the next 12 months

31.8% of companies plan to get an MFA solution within a year

7% more companies use MFA than last year

Source: 2022 Cyberthreat Defense Report

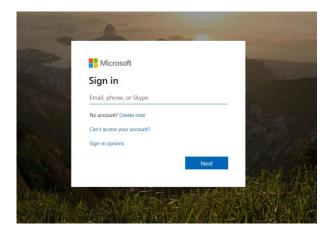
According to Microsoft, "99.9% of cyberattacks can be prevented by using Multi-Factor Authentication." Yet many organizations are slow to adopt this prevention technique.

> 80% of breach incidents came from identity theft



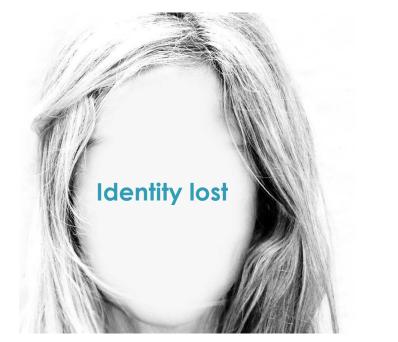
Typické vektory útoku na naše identity

Social engineering
Phishing / Smishing
Credential Stuffing
Lazy Phi\$hing



Deepfake

Malware-initiated fraud



Deepfake

A portmanteau of "**deep** learning" and "**fake**" is a technique for human image synthesis based on **artificial** intelligence.



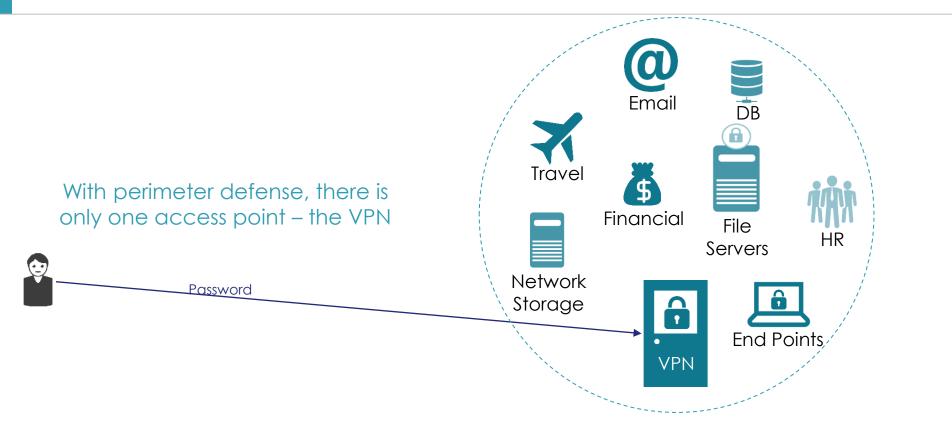
UK-based energy firm was duped out of \$243,000 through a sophisticated <u>deepfake</u> voice scam

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President of China

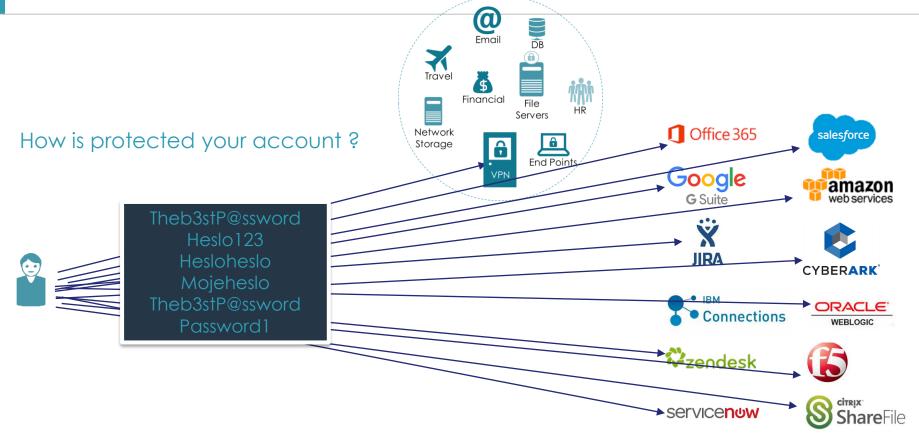
Prime minister of Canada

Jak to vypadá u nás



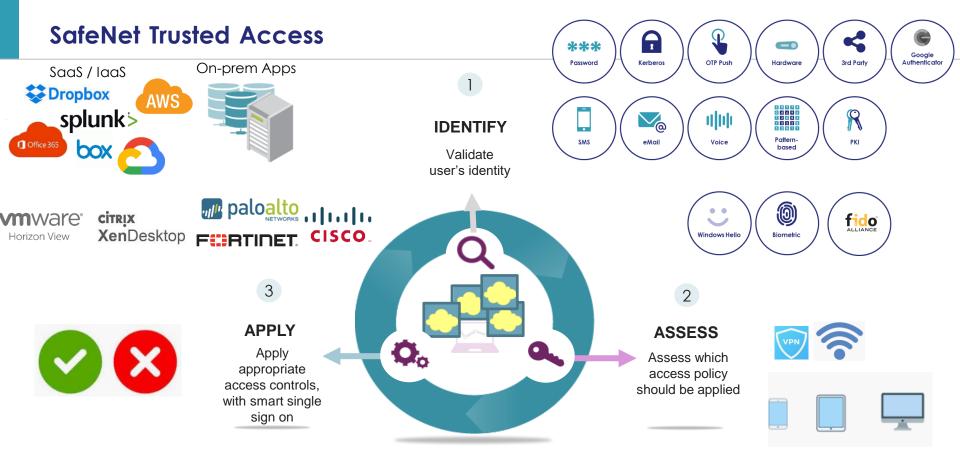


Uživatelé jsou dnes tím hlavním security perimetrem



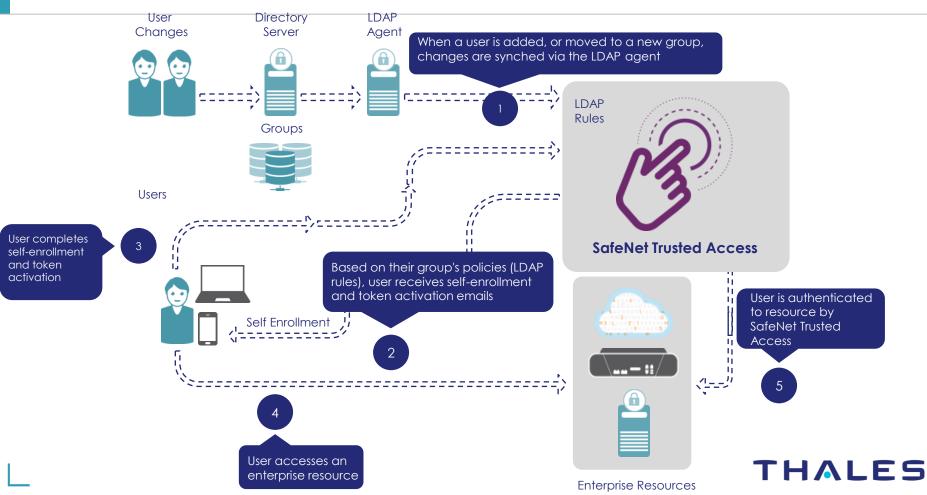
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SafeNet Trusted Access allows organizations to manage access to cloud applications by validating identities, determining levels of trust and applying appropriate access controls each time the user accesses a cloud service.

Automated Workflows Triggered by User Store Changes



STA Authenticator Provisioning and Self-Service

STA has several different options for **authenticator provisioning**:

- Admin-provisioning: Administrators can send out enrollment links via email
- Self-provisioning: Users can set up their preferred authenticator during first time login

A	vailable for MobilePASS+ and FID	0
Log in to access Acme Access Portal	Add Authenticator	Add Authenticator
Leia Organa Switch User	Confirm Your Identity	Select Authenticator Type Select a type of authenticator to add to your account:
	Hello leia! First we need to confirm your identity to add a new authenticator.	Authenticator App Set up the SafeNet MobilePASS+ app on your mobile device or computer
Protect Your Account Your account needs an additional layer of security.	Password Cancel Submit	Security Key or Windows Hello Register your security key or Windows Hello as an authenticator
To comply, you need to add an authenticator to one of your devices or your computer.		Grid Pattern Set up a pattern for your GrlDsure authenticator
Add Authenticator		Cancel Submit
Cancel Service powered by THALES		

User Self-provisioning

MobilePASS+ for Apple Watch

Users can now approve login requests without ever touching their phone

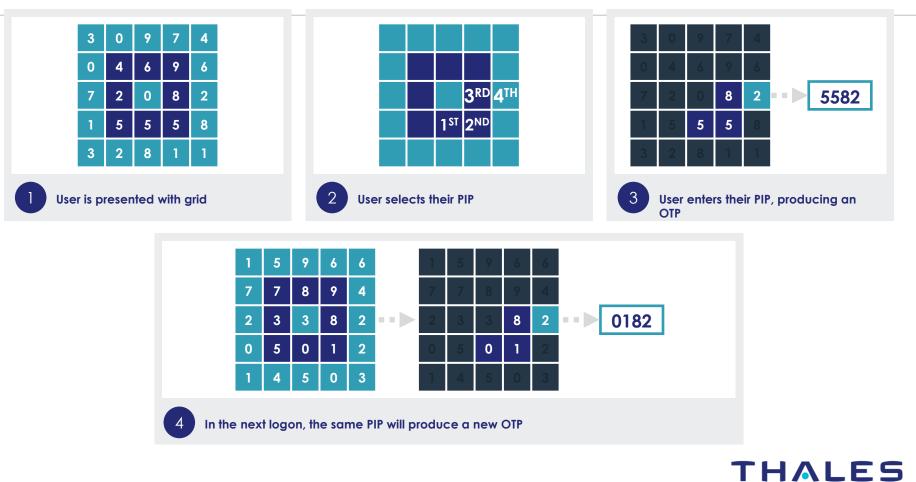
- Users will feel a tap on their wrist whenever a login request is sent via MobilePASS+
- With Watch biometrics enabled, users can approve push authentication requests with a simple tap
- Generate passcodes from the MobilePASS+ Apple Watch app

Technical details

- MobilePASS+ for Apple watch is a companion app for watchOS v6.0 and above
- Uses Apple Watch's wrist detection as second biometric authentication factor
- Approve/Deny push authentications directly from the notification on watch



Pattern-based Authentication



Proč MFA od Thalesu

- Thales se zaměřuje pouze na IT Securitu
- Mobile Pass+ nelze klonovat
- HW tokeny HOTP/TOTP
- Pattern based token
- Podpora PKI a FIDO
- Multitenant prostedi
- Cloud, On-prem nebo Hybrid



The New World

Zero Trust -> Adaptive authentication

- > Organizations should **not automatically trust** anything inside or outside their perimeters.
- > Enterprises should leverage flexible security applied at the **app level** based on **users**
- Rather that trusting the network to any extent, a zero-trust model puts all of its effort behind protecting applications, and the data they access.

Passwordless -> FIDO2

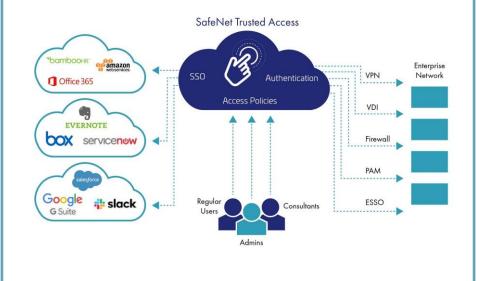
- > More Secure Eliminate phishing, credential stuffing & other passwords related attacks
- > Less Friction No need to remember multiple passwords. Faster & seamless login.
- Lower TCO Reduce IT operations costs & support costs

Možnosti nasazení MFA

Cloud IAM

Onprem IAM

Hybrid IAM



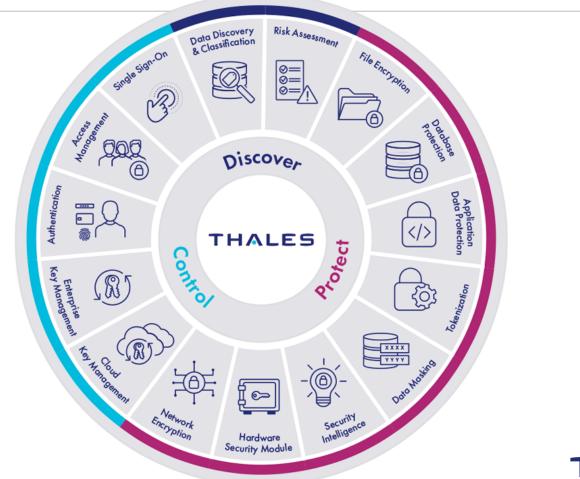
PKI – certifikát na kartě
 Virtuální PKI - certifikát v HSM + IAM
 FIDO – není třeba CA







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Enjoy the event

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