THALES | CLOUD PROTECTION & LICENSING

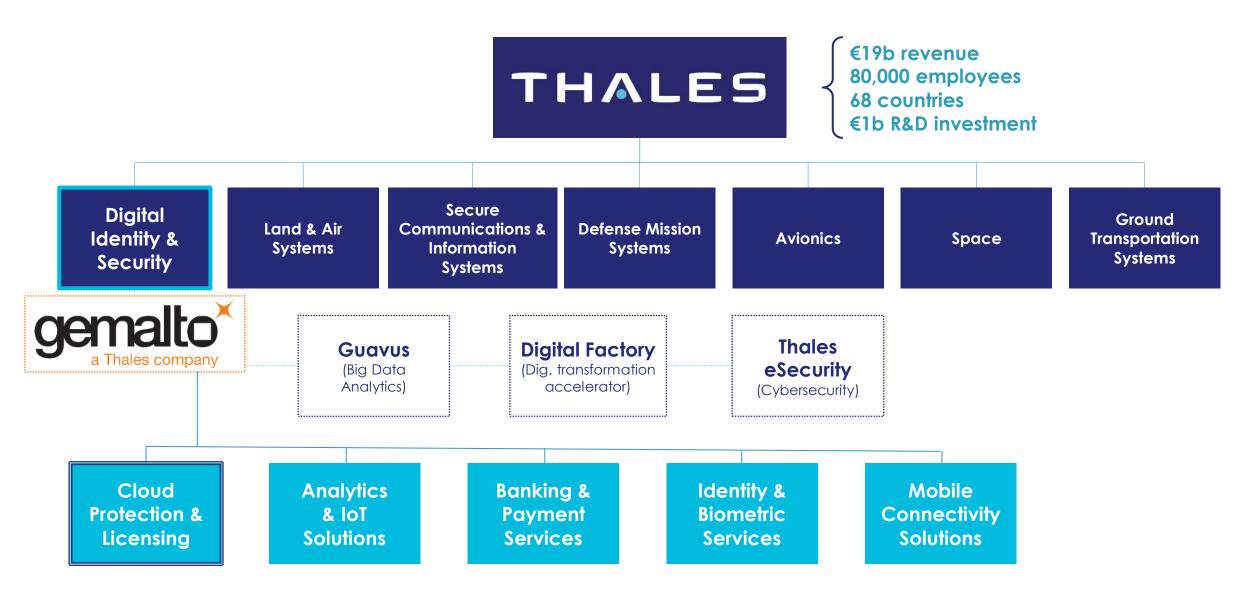
Data jsou ropou 21. století Chraňte si je!

Tomáš Jilík, Petr Kunstat Thales CEE

Pardubice 2019

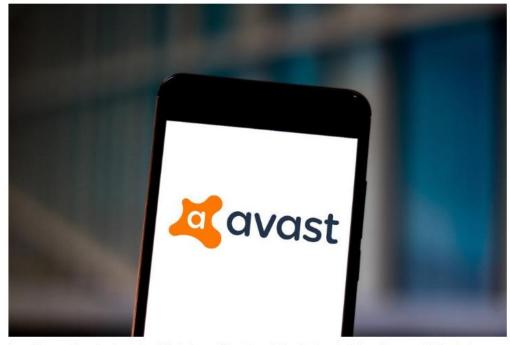


## Thales' new Digital Identity & Security





#### Forbes.com



Avast has suffered a breach of its internal IT network thanks to what it calls a sophisticated hack. PHOTO ILLUSTRATION BY RAFAEL HENRIQUE/SOPA IMAGES/LIGHTROCKET VIA GETTY IMAGES

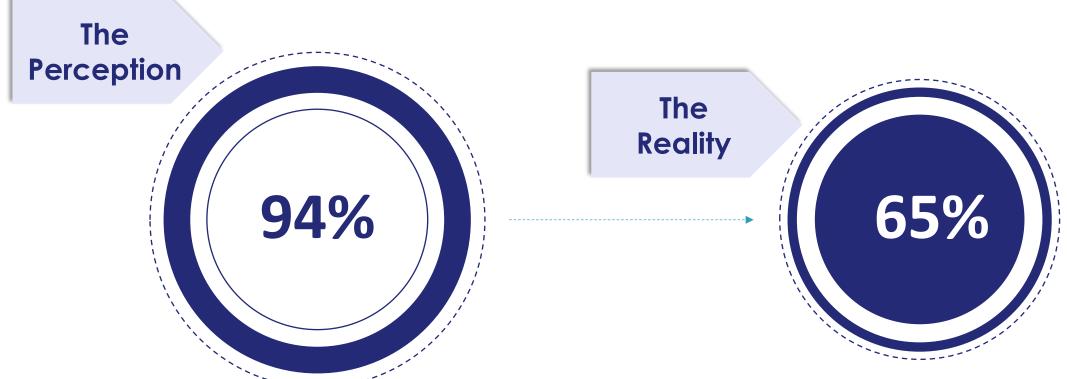
Avast has become the victim of a cyberespionage campaign that saw hackers gain deep access to its network. But the Czech company, which has more than 400 million customers for its various antivirus and cybersecurity products, claims the damage is limited.

#### Co se stalo?

V pondělním ranním oznámení společnost Avast uvedla, že její vnitřní síť byla narušena pomocí uživatelského jména a hesla pro VPN dočasný účet. Účet byl omylem ponechán otevřený a nevyžadoval druhý faktor autentizace, což poskytuje snadný přístup k počítačům Avastu.



### Would your data be secure after a breach?



of enterprises say their perimeter security technology is quite effective at keeping unauthorized users out of their networks. of enterprises aren't confident their data would be secure after a breach.



#### Move security beyond the perimeter to defend what's really under attack





#### The main causes of cyber threats

## Main cause of attacks

# **IDENTITY THEFT**

69%

of breach incidents came from identity theft



## Main cause of damages

# UNENCRYPTED DATA



95%

of breaches involved unencrypted data





Some quotes from Werner

We need to make sure that all the pieces we are building are also individually protected

Encryption is the one and only tool you have to make sure you are the only one who has access to your data.

Over 116 different services within AWS with encryption enabled, 52 of them you can **bring your own keys**.

We urged you to bring your own master keys. Because if you do that you are the only one who decide who has access. Not AWS, not any foreign entity. It is you who controls access to your systems.









# THALES

# Ochrana Identit a kontrola přístupu k datům



# Nejčastějším cílem útoku jsou uživatelská ID a hesla



#### What Did Breaches Look Like So Far in 2019?

The breach trends observed in the first quarter continued and remained strong as we moved through the midway point of the year. The disclosure rate for publicly reported breaches continued its breakneck pace, jumping to over 3,800 breaches in the first six months. This represents a 50% or more increase over each of the prior four years, begging the question: why?

The interest in user credentials is the key. Troves of username and password combinations continue to become available on forums and file sharing sites while phishing for access credentials - a perennially popular method for gaining access to systems and services - has surged in recent months, proving once again that tried and true social engineering techniques still produce results for attackers.

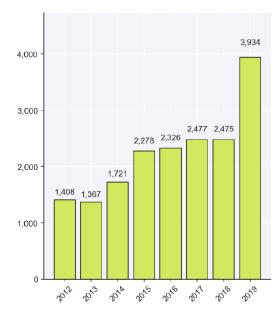


Figure 1: The number of breaches (in millions) added by Q2 in the past 8 years.



### New threat example – Artificial Intelligence

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



Xi Jinping



Justin Trudeau

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



#### **MFA**

- Increase security
- Reduce Risk of Data Breach

- User Inconvenience
- Have to have Token hw, sw, sms

#### SSO

- No additional security
- Risk to gain access to sensitive data

- **User Convenience**
- Not need to login twice

#### **Safenet Trusted Access**

The best of both combining **SMART** SSO and MFA



#### SafeNet Trusted Access













Login Request



zendesk



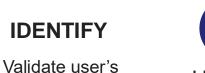
















Hardware PKI









SONICWALL SAP Concur C.

**\$** slack



servicenow















































3







identity



Assess which access policy should be applied







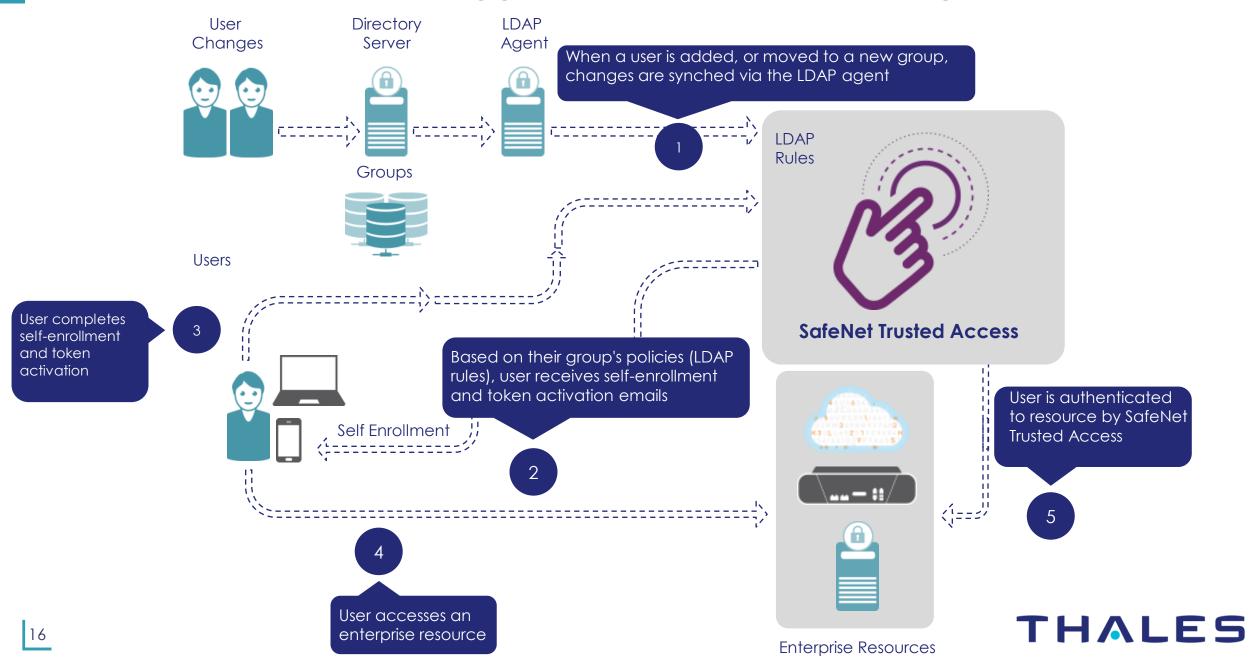




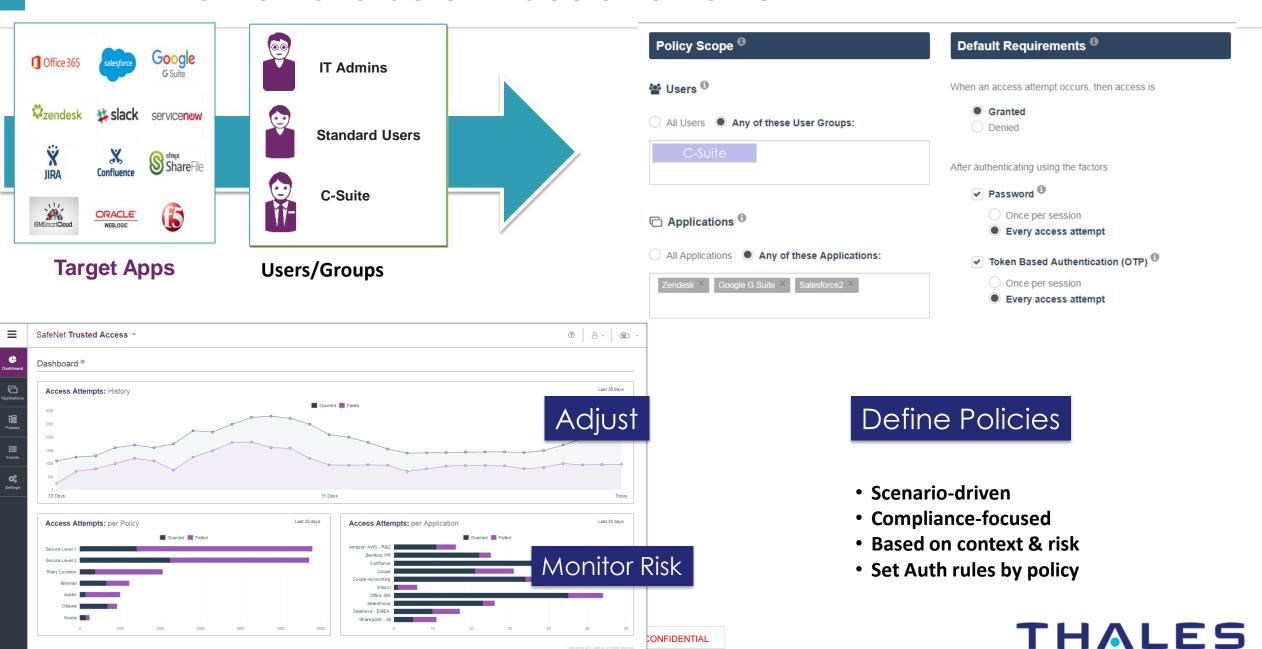
SafeNet Trusted Access allows organizations to manage access to cloud applications by validating identities, determining levels of trust and applying appropriate access controls each time the user accesses a cloud service.



## Automated Workflows Triggered by User Store Changes



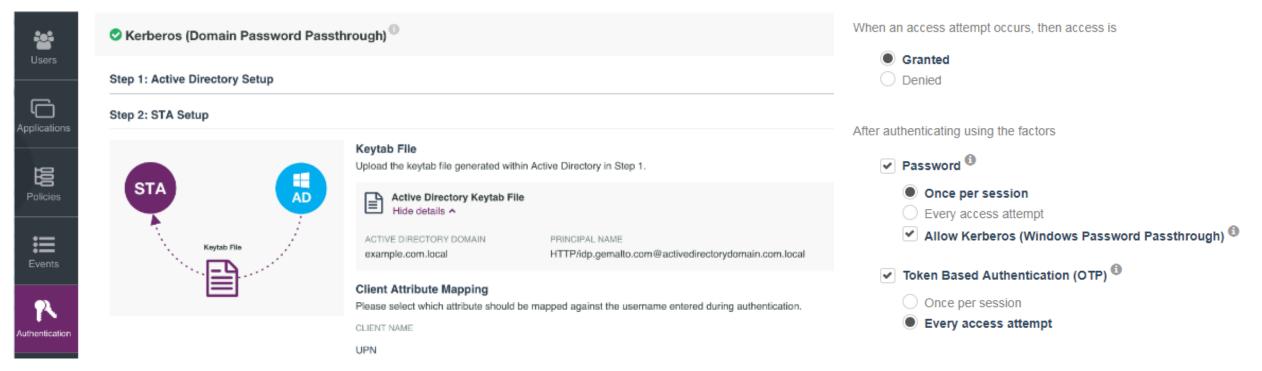
#### MFA – multifaktová autentizace s kontextem



#### **Windows Integrated Authentication**

#### SafeNet Trusted Access can use Windows login to the enterprise

- > As an authentication factor in the SSO session
- Enhances convenience:
  - No need to authenticate again after logging in with your Windows domain password

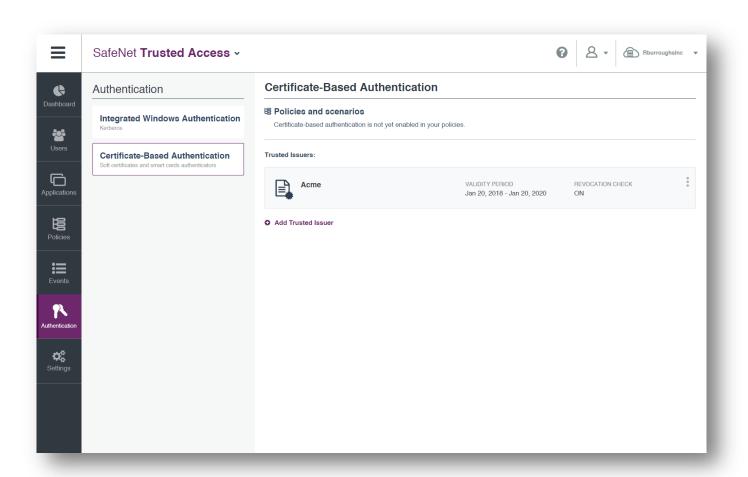




## **PKI/Certificate Based Authentication**



#### Extend certificate-based authentication to cloud apps



- Enforce high assurance security across cloud and web apps
- Simplify access for users with cloud and web single sign-on (SSO)
- Elevate trust with a choice of PKI and OTPbased authenticators





Thank you

