

Thales Group



Operation Control and integrated communications & supervision for rail networks:

Caracas, Dubai, Athen, Manchester, Paris, Brussels, Bangalore, Istanbul, Mecca, Guangzhou, Hong Kong, Copenhagen, Florence, Lausanne, etc.

GROUND TRANSPORTATION



Watchkeeper, Europe's largest UAV system



Two out of three aircraft in the world take off and land using Thales equipment

DEFENCE



Orbital infrastructureThales Alenia Space has supplied 50% of the pressurised volume of the International Space Station

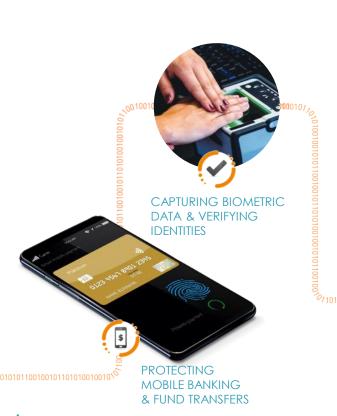


Cybersecurity
Cybersecurity of critical information
systems of over 130 major accounts
Protection of 80% of the world's banking

transactions Securing the information systems of 19 of the world's 20 largest banks and 9 of the 10 biggest internet giants

SPACE SECURITY

Gemalto a Thales Company









DELIVERING HARDWARE AND SOFTWARE TO CONNECT CARS AND OTHER DEVICES



POWERING CONTACTLESS PAYMENT FROM CARDS, MOBILES AND WEARABLES



ENCRYPTING DATA SO THAT IT'S UNUSABLE IN A BREACH

Thales Digital Identity and Security – World Wide Leadership

World Leader in Data Encryption and Key Management

#1

- Hardware Security Module
 - > Payments, General Purpose, and Cloud

#1

Cloud Authentication

Software Licensing and Protection

#1

Providing identity and digital security to our customers





Databreaches are increasing...

Databreach record since 2013

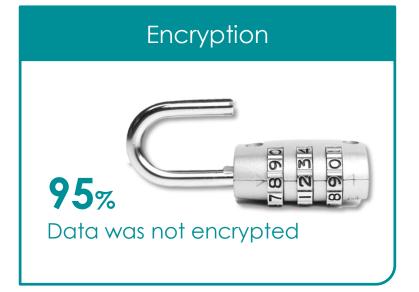




Main cause of the attacks



Main cause of the damage





Argentina – Databreaches news



Conocé al hacker argentino que se volvió millonario encontrando fallas en Facebook, Google y Twitter



CLICK AQUI



EL CRONISTA

EDICIÓN

El me

Un estudio aborda adoptarán a lo larg

hackers que :



Miércoles 11 de Abril de 20

s de seguridad que las empresas

fectado a decenas de miles de ios 10 años.

THALES

Our response: Digital security combining core and perimeter







CLOUD DATA SECURITY

www.vormetric.com

VORMETRIC COMPANY CONFIDENTIAL

Roman Baudrit – Thales CPL LATAM

- 29 Years in the IT Industry
 - > 14 in IT Security
- IBM, 3Com, TippingPoint, HP, Vormetric, Thales
- This has been my digital transformation







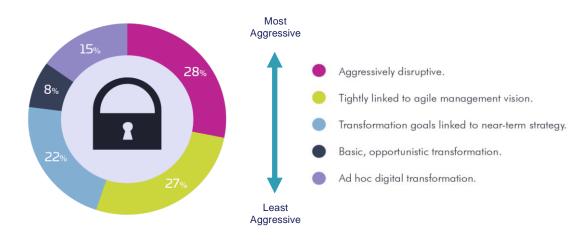






Aggressive Digital Transformers Are Most At Risk

Rates of data breaches by digital transformation stance



Compliance

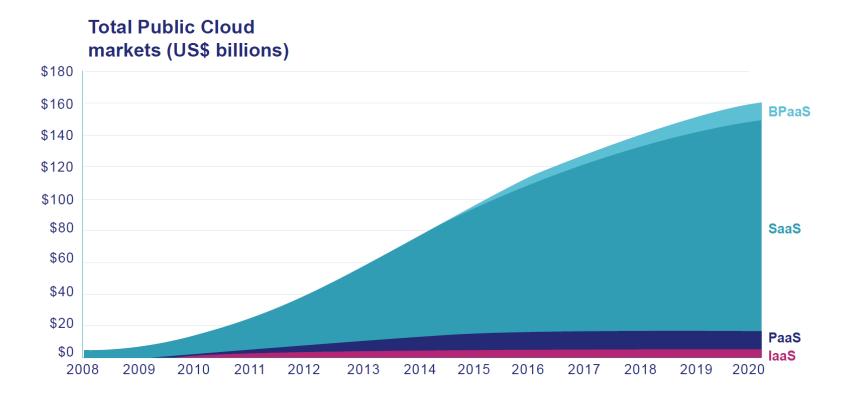


Data Privacy

89% of respondents said that their organizations would be affected by data privacy or data sovereignty regulations



Cloud Computing Unprecedented Growth





Shared Responsibility Model Illustrates Data Security Roles

Customer Responsibility

Provider Responsibility

Service (laaS)
Data
Application
Runtime
Middleware
0/\$
Virtualization
Servers
Storage
Networking

Infrastructure as a

(PaaS)
Data
Application
Runtime
Middleware
0/\$
Virtualization
Servers
Storage

Networking

Platform as a Service

(SaaS)
Data
Application
Runtime
Middleware
0/\$
Virtualization
Servers
Storage
Networking

Software as a Service

Cloud Repatriation

Public Cloud Repatriation Rates

Q. In the last year, has your organisation migrated any applications or data that were primarily part of a public cloud environment to a private cloud or on-premises environment?

38% On-Premises Private Cloud

40% Hosted Private Cloud

22% On-Premises Non-cloud

40% Hosted Private Cloud

40% On-Premises Private Cloud

47% Hosted Private Cloud

20% On-Premises Non-cloud

Percent of Public Applications
Expected to Repatriate Over the
Next Two Years (Average)

50%

Top Repatriation Drivers

Security	19%
Performance	14%
Cost	12%
Control	12%
Centralize/Reduce Shadow IT	11%



Analysts: Advanced Encryption and Centralized Key Management

Use File Encryption

Centralize Key Management

- File encryption is used for critical data that needs to be encrypted at all times
- File encryption is very good at protecting from the insider threat

- Build a robust key management infrastructure
- Essential components are a flexible key management platform, the data encryption, and access control

IDC, Worldwide Endpoint Encryption and Key Management Infrastructure Forecast, 2016–2020, Robert Westervelt et. al., August 2016 US41632016

IDC, Encryption a Powerful Risk-Reducing Tool, But a Business Impact Analysis Is Essential, Robert Westervelt. April 2017 US42425317

The Misconnect

71% of enterprises use sensitive data in cloud environments

71%

But only 30% use encryption in these environments.



Source: 2019 Thales data Threat Report by IDC

Multicloud Top Challenges

Top 5 Multi-Cloud Hurdles

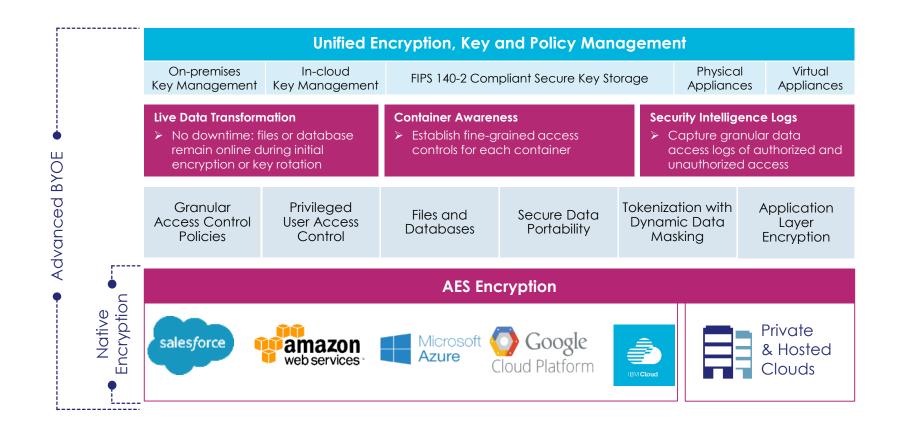
- > 32% Different workflow and management tools
- > 27% Lack of unified security monitoring across providers
- > 25% Too much effort relative to benefit
- > 25% Too difficult to synchronize across multiple platforms
- > 24% Too difficult to share data across multiple platforms

Removing Cloud Security Complexity

Complementing Public Clouds with Operational Efficiency, and Enabling Greater Control for Reducing Risk

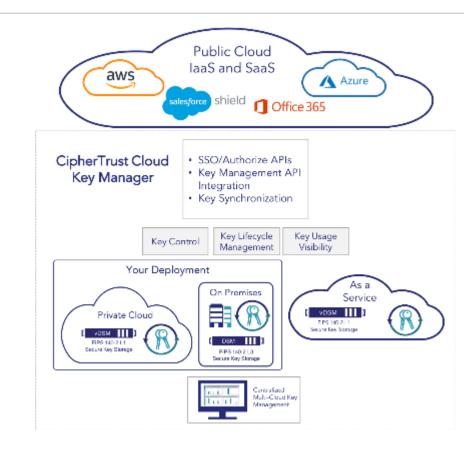


Advanced Data Encryption Provides Real Protection and Control

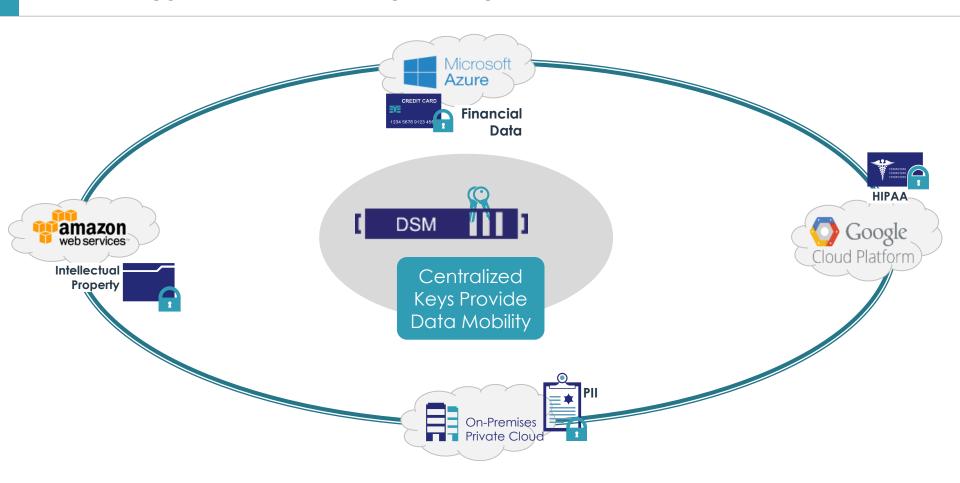


CipherTrust Cloud Key Manager

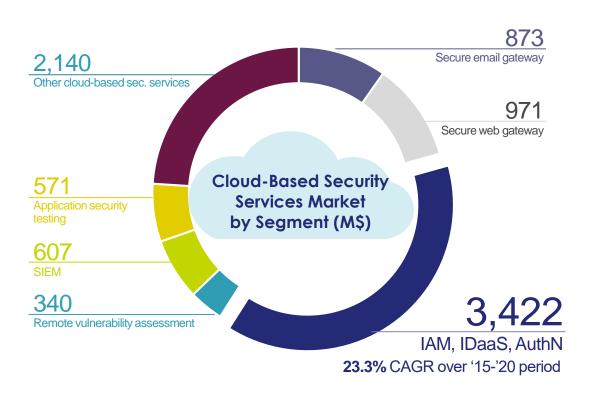
- Centralized, multi-cloud key control and management for laaS and SaaS
- As a service or on-premises deployment
- Secure Key Storage
- Logging and Reporting for enhanced visibility and compliance



True Encrypted Data Mobility is Only Possible with BYOE



Cloud as an enabler to this new approach – The Opportunity



The New Landscape



Access Management makes Authentication <u>deployable</u> & <u>usable</u>

Define suitable security with universal authentication methods



Password





Hardware



Softwar е



Oath



Google Authenticator

















PKI



Passwordless



Biometric



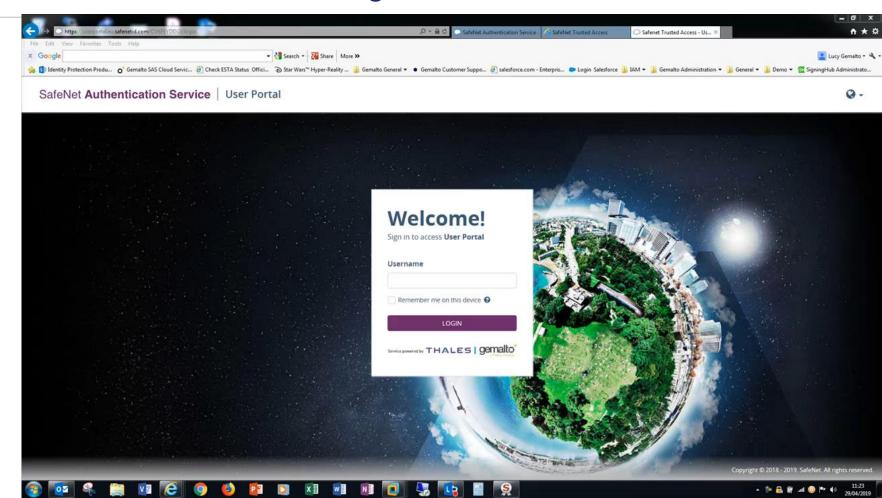
Windows Hello*



FIDO*

- Utilize the MFA schemes already deployed
- **Extend PKI** authentication to the cloud
- Offer the appropriate level of assurance
- Offer convenience with **Passwordless** authentication

Certificate based Access Management to O365



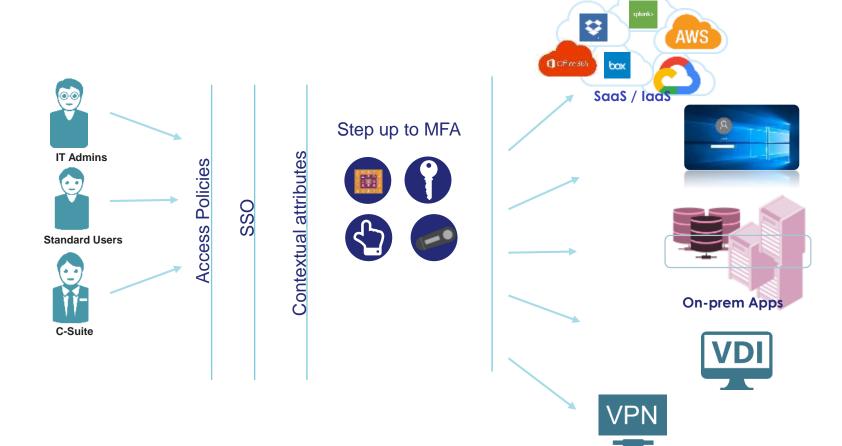
PKI Transformation: Extending PKI to New Use Cases

Allow organizations to:

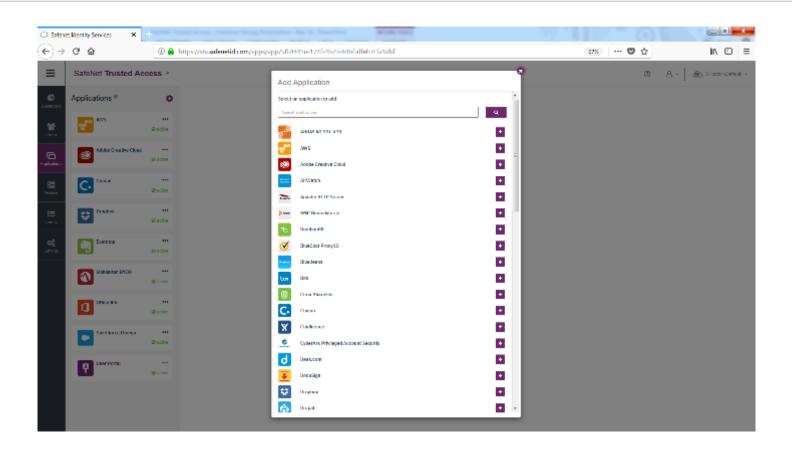
- Secure their cloud transformation with PKI:
 - Use hardware smart cards to authenticate to cloud and webbased apps
- Enable secure employee mobility:
 - Access apps from any device via VDI using virtual PKI smart cards



Access Management



Access Management available for all mainstream applications



Fueling the need for a new approach to Security



Perimeter Free

- No control at the perimeter
- No need to re-route traffic to proxies



Pushing Security to

- > The <u>user</u>
- The <u>targeted</u> resource
- Irrespective of the underlying network topology (zero-trust)



Flexible & Adaptable

- Intelligent & contextaware
- Access policies balancing
 - Security goals
 - vs. usage scenarios (UX)

