

# Event Public Sector

Protection de vos données dans Azure

Thomas Eklund – Microsoft

Thibaud Merlin - Kyos



# Agenda

Introduction

Etat du marché, notamment Romand

Overview des produits 'cloud' Microsoft

Overview des services Kyos

Solutions de Sécurité Microsoft

Overview AIP

Demo AIP

AD-RMS/BYOK/HYOK

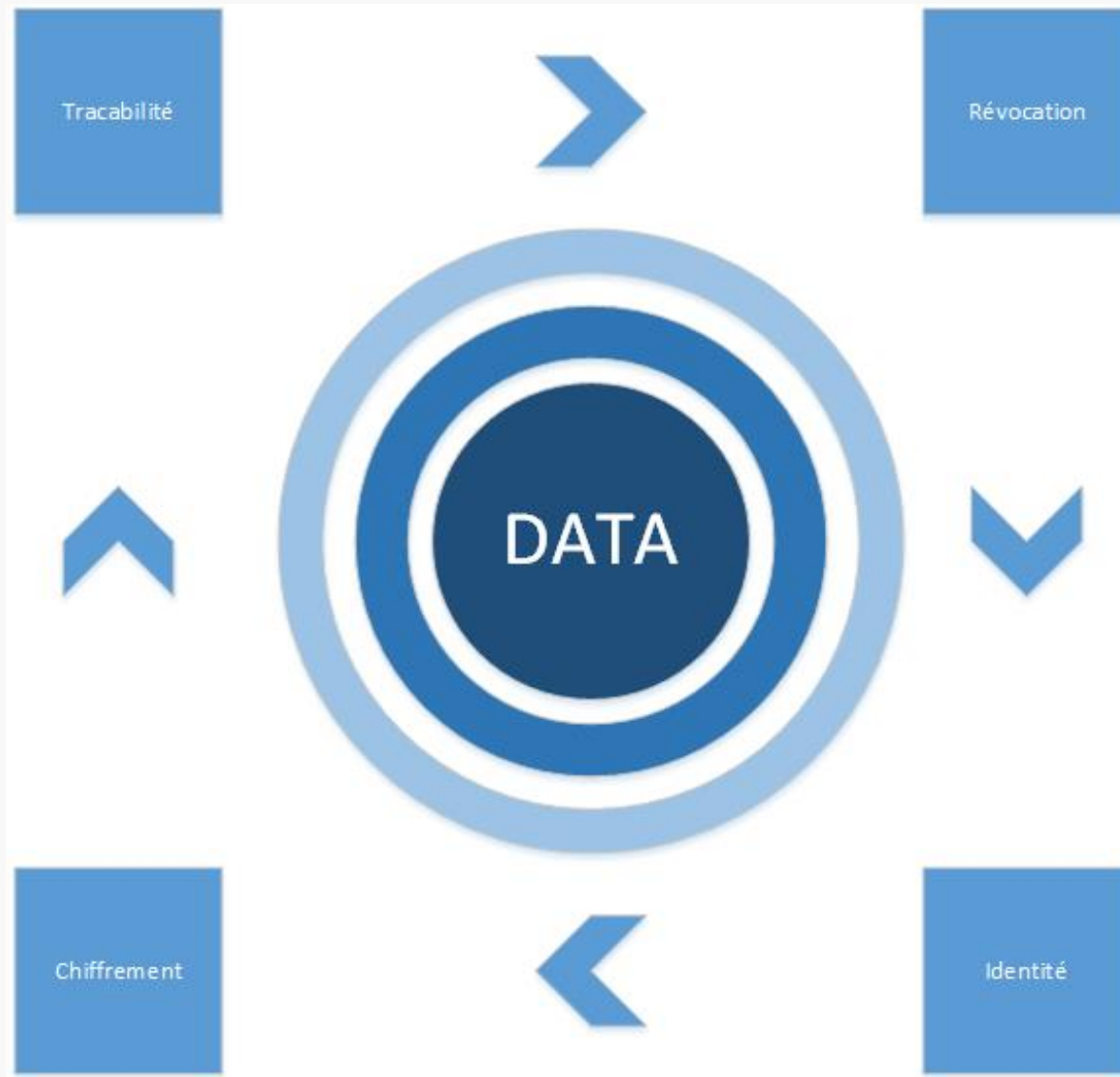
Use case pratique

Implémentation AIP avec des services on-prem

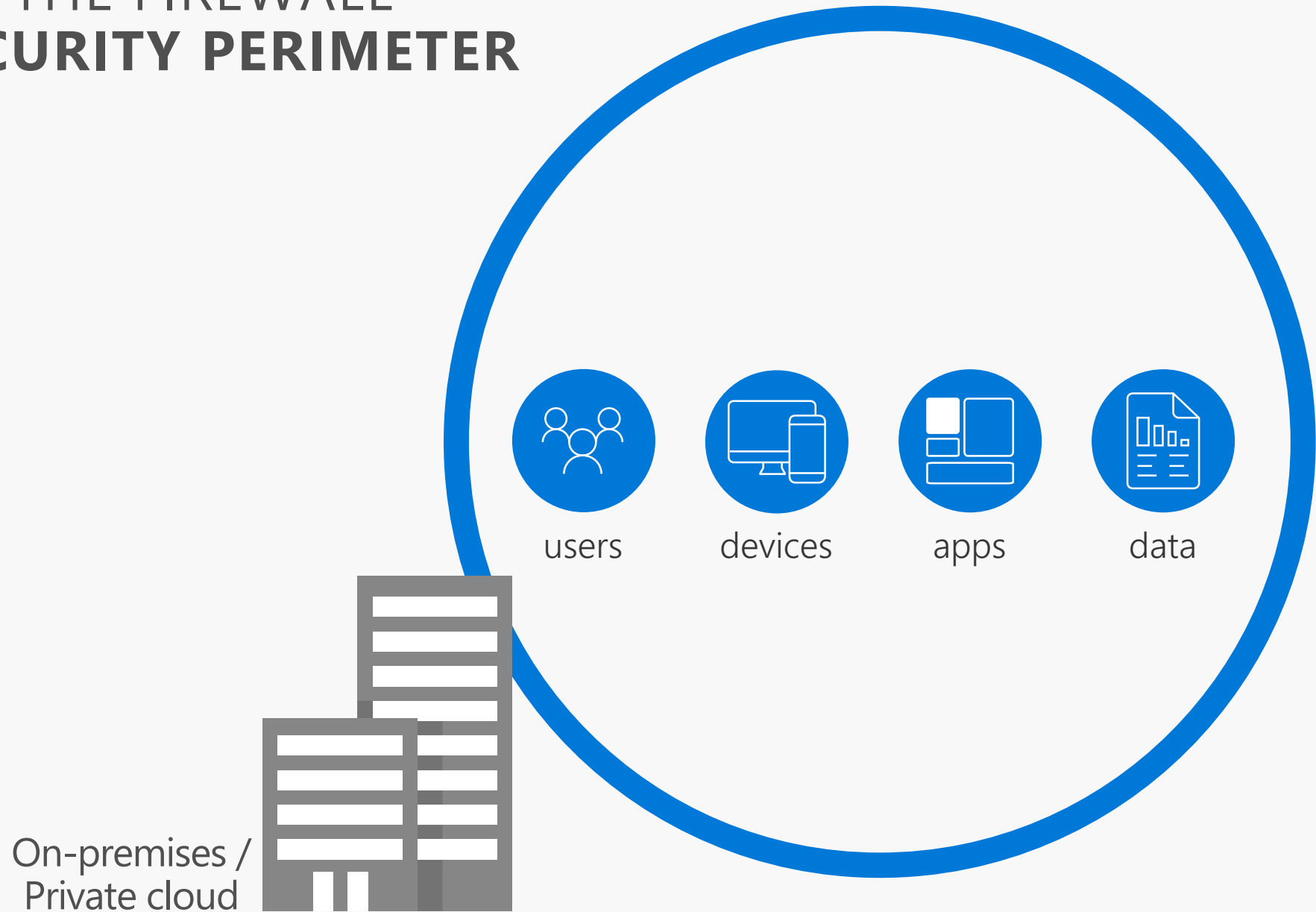
AIP et conditionnal access et Azure AD

BYOK et Thales CCKM avec Azure Key Vault

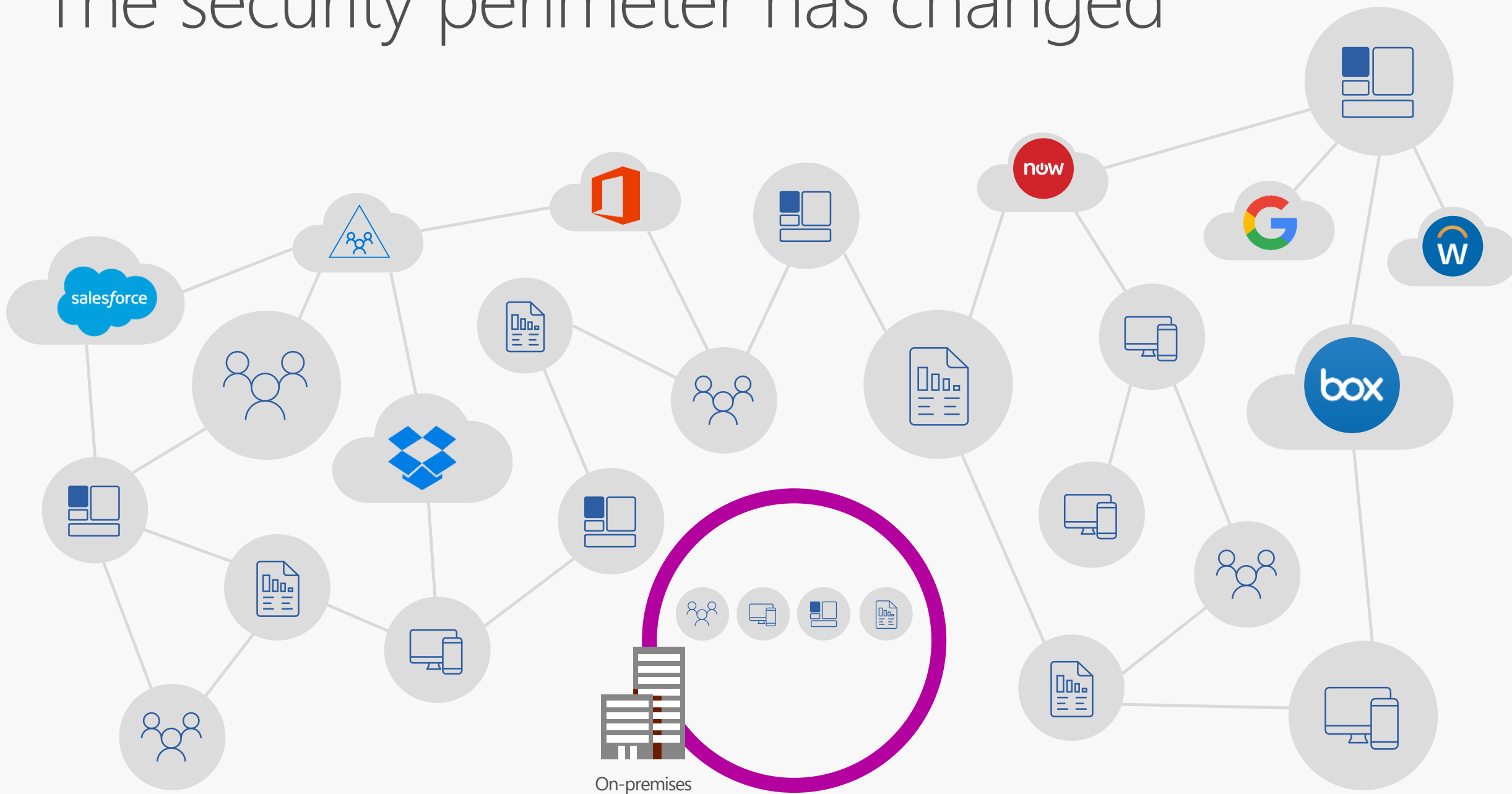
# Classifier et protéger vos données : L'approche 'Data Centric'



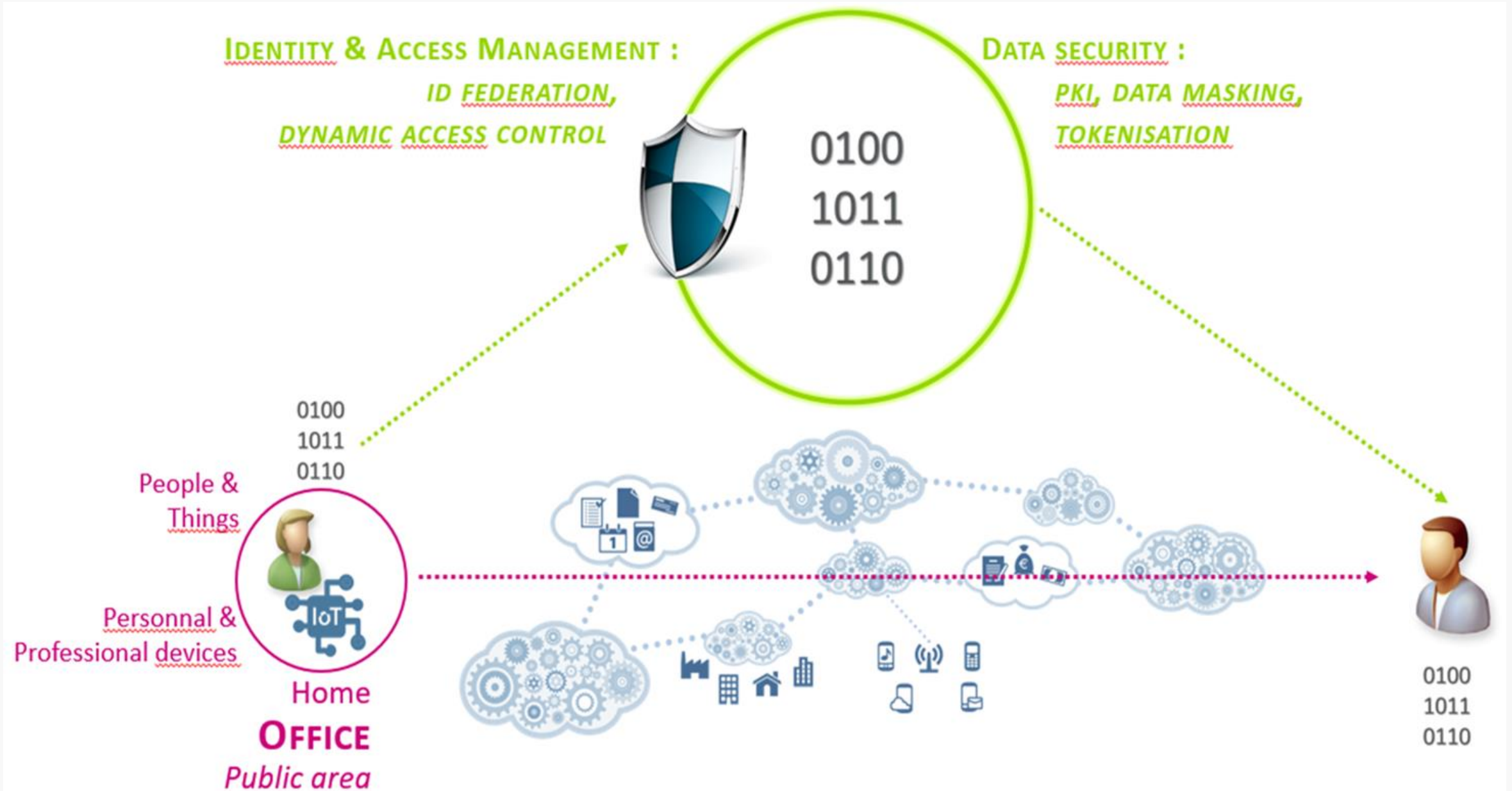
# IN THE PAST, THE FIREWALL WAS THE **SECURITY PERIMETER**



# The security perimeter has changed



# Notre Vision



A background image showing a group of business professionals in a meeting. A man in a dark suit and tie is standing on the left, looking towards the right. In the foreground, a man with glasses and a striped tie is sitting at a table, looking down at a laptop. A woman is sitting next to him, also looking at the laptop. Another woman is standing behind them, looking on. The scene is set in a modern office environment with a light-colored wall.

# Où en sommes-nous en Suisse dans les secteurs hautement régulés?

# UBS taps the cloud to power critical workloads

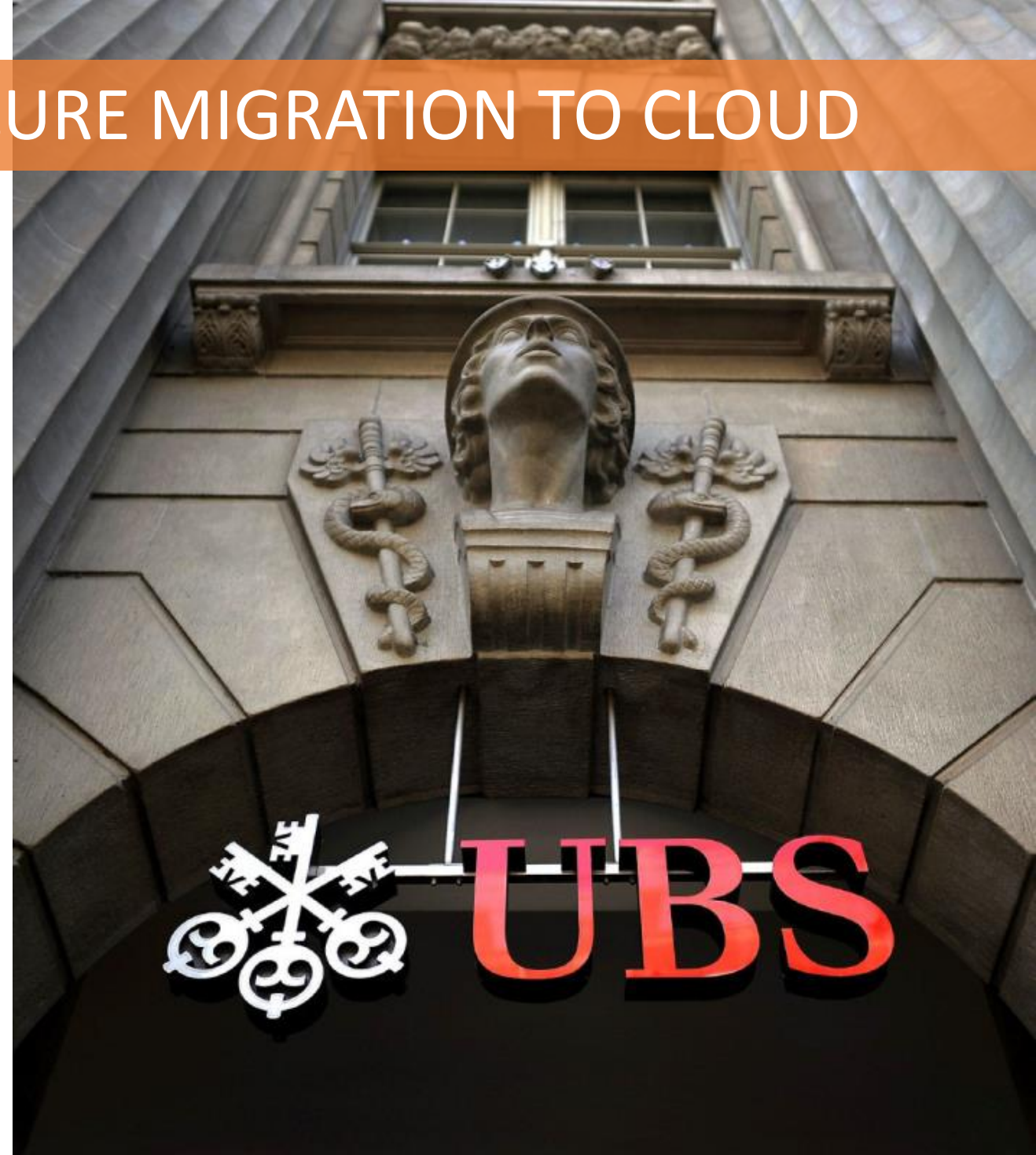
“With Microsoft Azure, we are building on the industry’s leading cloud platform in terms of innovation, technology, security and regulatory compliance, which is very important as a Swiss financial institution.”

— Paul McEwen, Head of Technology Services,  
UBS



▶ Watch

## SECURE MIGRATION TO CLOUD





# UBS taps Microsoft Cloud to power business-critical tech



## USE CASE: SECURE MIGRATION TO CLOUD

The results —

- speeding calculation time by 100 percent,
- saving 40 percent in infrastructure costs,
- gaining nearly infinite scale within minutes, securely

— means UBS can have more working capital on hand and employees can make quicker, more informed decisions for their clients on a secure platform

## MIGRATION TO CLOUD

# UBS taps the cloud to power critical workloads

COMPANIES > MICROSOFT

## UBS Said to Prepare Cloud Move to Secret Microsoft Data Centers

UBS head office in London, 2008

UBS Group will spend hundreds of millions of Swiss francs to use Microsoft's cloud services hosted in two Swiss data centers, anonymous sources told Bloomberg News • Switzerland's largest bank wants to scale back the number of its own data centers over the next four years • It currently has 25 of them

Bloomberg | Dec 12, 2018

Banks in Switzerland, the world's largest center for offshore wealth, are under pressure to **cut costs** as low interest rates and the dismantling of the nation's banking secrecy **squeeze profits**. While using cloud services can eliminate the need to maintain costly data centers, Switzerland's financial regulator Finma enforces strict laws regarding what data can be moved outside of the country.

# Regulatory Compliance and Auditing with Microsoft Cloud Services

Office 365    Microsoft Dynamics CRM Online  
Microsoft Azure    Microsoft Intune

## Regulatory Compliance and Auditing with Microsoft Cloud Services

*for Financial Services Customers*

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**Deloitte.**



**Microsoft (Schweiz) GmbH**  
Office 365 cloud services for Swiss banking clients  
ISAE 3000  
30.06.2017

Helping **banks  
and insurers**  
meet regulatory  
responsibilities

# Microsoft Trust Center

The screenshot shows the Microsoft Trust Center website. The navigation bar includes 'Trust Center', 'Compliance', 'Security', 'Privacy', 'Products', 'Industry', and 'Resources'. The main content area is titled 'Microsoft business cloud services and financial services' and focuses on helping banks and insurers meet regulatory responsibilities. It includes several paragraphs of text, a 'Recommended resources' section with links to 'Banking & Capital Markets' and 'Insurance', and a 'Contact Trust Center' section with a list of contact options for current and non-current cloud services customers. A dark blue banner at the bottom left reads 'Your data is private and under your control'.

**Microsoft business cloud services and financial services**

Helping banks and insurers meet their regulatory responsibilities

At Microsoft, we're committed to earning the trust of our financial services customers. We offer business cloud services based on four foundational principles: security, privacy and control, compliance, and transparency. We engage with regulators in key markets to share information about our services, the related controls, and our approach to enabling customer compliance. We also take input from leading banks and insurers across the globe on an ongoing basis to improve our offerings to help meet regulatory requirements.

Here we'll summarize our key privacy and security features to show how Microsoft business cloud offerings help firms meet the core "outsourcing" regulatory requirements in their respective markets. While outsourcing guidance for use of IT vendors tends to be based on a common framework that Microsoft adheres to, understanding local requirements is important. Microsoft has deep expertise in supporting financial services customers, placing an emphasis on designing our business cloud services so they meet local requirements. Your Microsoft local representatives can help explain our approach and control frameworks, and aid you with any reviews by regulators in using Microsoft business cloud services.

Microsoft aims to make the required regulatory due diligence process easier for customers by collaborating with them throughout the outsourcing cycle. To that end, we also offer a wide range of information through the Trust Center and the [Service Trust Portal](#), as well as tailored contractual provisions to help firms meet their regulatory obligations. Many of our customers are global entities and, given our size and reach, we can offer assistance across multiple jurisdictions.

Your data is private and under your control    We manage your data in accordance with the law  
We'll help keep your data secure    You know what we're doing with your data

*The information on this page does not apply to Microsoft Cognitive Services or Windows.*

**Your data is private and under your control**

Data use by Microsoft

*Banks and insurers maintain ultimate ownership and control of their data.*

Microsoft makes clear that you, not Microsoft, retain [ownership and control over your data](#) stored in the cloud. Microsoft uses cloud service customer data exclusively to provide customers with state-of-the-art cloud services. We do not use business customer data for advertising-based services, nor do we use or scan the contents of that data (including your email) for advertising or any unauthorized activity or purpose. Furthermore, we have strict limitations to access your data only as you authorize to provide the services you have purchased.

Microsoft is also the first major cloud provider to adopt the world's first international code of practice for cloud privacy, [ISO/IEC 27018](#), which addresses the requirement that cloud providers not use your data for advertising. Our privacy controls are audited against this standard annually.

☆ Microsoft Online Services Terms

[Microsoft Online Services Terms](#) offer standard contract terms to enterprises seeking cloud services. Microsoft provides additional contractual provisions for most financial services entities to help meet specific regulatory obligations. Please contact your Microsoft account manager for more information.

📖 Recommended resources

Banking & Capital Markets: global digitization with Microsoft  
Insurance: Microsoft and the digital insurer

[See all resources >](#)

🔍 Contact Trust Center

Need help evaluating our products? Can't find the information you need?

- **Current cloud services customers**  
Contact your Microsoft account representative.
- **Not a cloud services customer?**  
[Contact Microsoft sales and support >](#)

Looking for general technical support?  
[Contact Microsoft support >](#)

Helping **banks and insurers** meet regulatory responsibilities

# Regulatory Compliance and Auditing with Microsoft Cloud Services



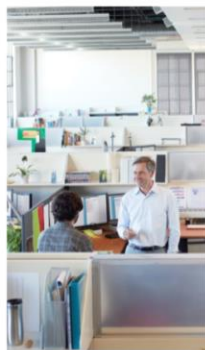
## Microsoft Cloud Financial Services Compliance Program

Financial services and other regulated organizations are typically required to conduct risk assessments and perform due diligence before committing to a cloud service, and they must maintain valid risk assessments and appropriate oversight of the cloud vendor for as long as they use it. The Microsoft Cloud Financial Services Compliance Program (FSCP) was specifically created to help financial services and regulated financial affiliates assess the risks of using Microsoft's cloud services. The FSCP offers deep insights into Microsoft cloud services' capabilities, risks, and performance. The FSCP is available to customers using Microsoft Office 365, Microsoft Azure, Microsoft Dynamics 365, and Microsoft Intune.

### Program Benefits

The FSCP is designed to help customers alleviate risk and compliance concerns and to increase the adoption and use of Microsoft cloud services, and has been built with an understanding of the unique and strict regulatory requirements of financial services and related customers. FSCP benefits include:

- Direct engagement with Microsoft Engineers, Program Managers, and others
- An annual multi-day Compliance Summit, held in Redmond, WA
- On-demand 1:1 audit rights (fee-based)
- Dedicated webcasts and focus groups designed for program members
- Monthly newsletter with feature topics and links to articles and resources
- Access to private Yammer community to discuss relevant topics and share ideas



<sup>1</sup>The Yammer network is suitable for meeting security requirements for collaboration and document sharing, and membership is restricted to invite-only.

FSCP benefits also include assistance with General Data Protection Regulation readiness, access to external auditors to address complex regulatory issues and new requirements, and more. We have a team of specialists in banking, insurance, and asset management, as well as financial services treasury and remediation services. With access to Microsoft compliance experts and cloud service engineers, FSCP members can provide feedback, and influence features and our product roadmap. Your local Microsoft representative will have details on program enrollment and deliverables.

Microsoft is committed to the highest levels of trust, transparency, standards conformance and regulatory compliance.

### Risk Assurance

#### Self Service

- |                        |                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trust and transparency | <ul style="list-style-type: none"> <li>• In-product risk and compliance management features</li> <li>• Security, risk assessment and compliance tools</li> <li>• Tailored compliance guides</li> <li>• GDPR readiness</li> <li>• Regulator right to examine</li> </ul> |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Risk Assessments

- Third-party cloud service audit reports
- Industry regulator examination
- Certification and controls library

#### Personally Guided

- |                            |                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customized Security & Risk | <ul style="list-style-type: none"> <li>• 1:1 engagement with Microsoft engineering and cloud experts</li> <li>• Service Trust Portal sign-in</li> <li>• Security Dashboard</li> <li>• Secure Score</li> <li>• Audience tailored compliance guides</li> </ul> |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Compliance Program

- Access Microsoft compliance and security experts
- Additional access to personalized information
- Audit webcasts & annual summit
- Risk Register & Control Framework
- Advanced Roadmap
- Security incident reviews
- Access to external auditors
- Ability to influence via future audit scope

#### On-Demand

- |                  |                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customized Audit | <ul style="list-style-type: none"> <li>• 1:1 access to examined controls and evidence</li> <li>• 1:1 Microsoft experts, information, and evidence (fee-based)</li> </ul> |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Helping banks and insurers meet regulatory responsibilities

A woman in a dark vest over a light-colored shirt is looking at a tablet device. She is standing in a modern building with a prominent glass and steel lattice ceiling. The ceiling consists of a complex network of blue and brown metal beams forming a diamond-like pattern. The background shows a bright, open space with more of the same ceiling structure.

Et le secteur public?

*"Est-ce que des clients ont déjà franchi le cap???"*

A woman in a dark vest over a light-colored shirt is looking at a tablet computer. She is standing in a modern building with a prominent glass and steel lattice ceiling. The ceiling consists of a complex network of blue and brown metal beams forming a diamond pattern. The background shows a bright, open space with more of the same ceiling structure.

Et en Suisse romande?

*"Est-ce que des clients ont déjà franchi le cap???"*

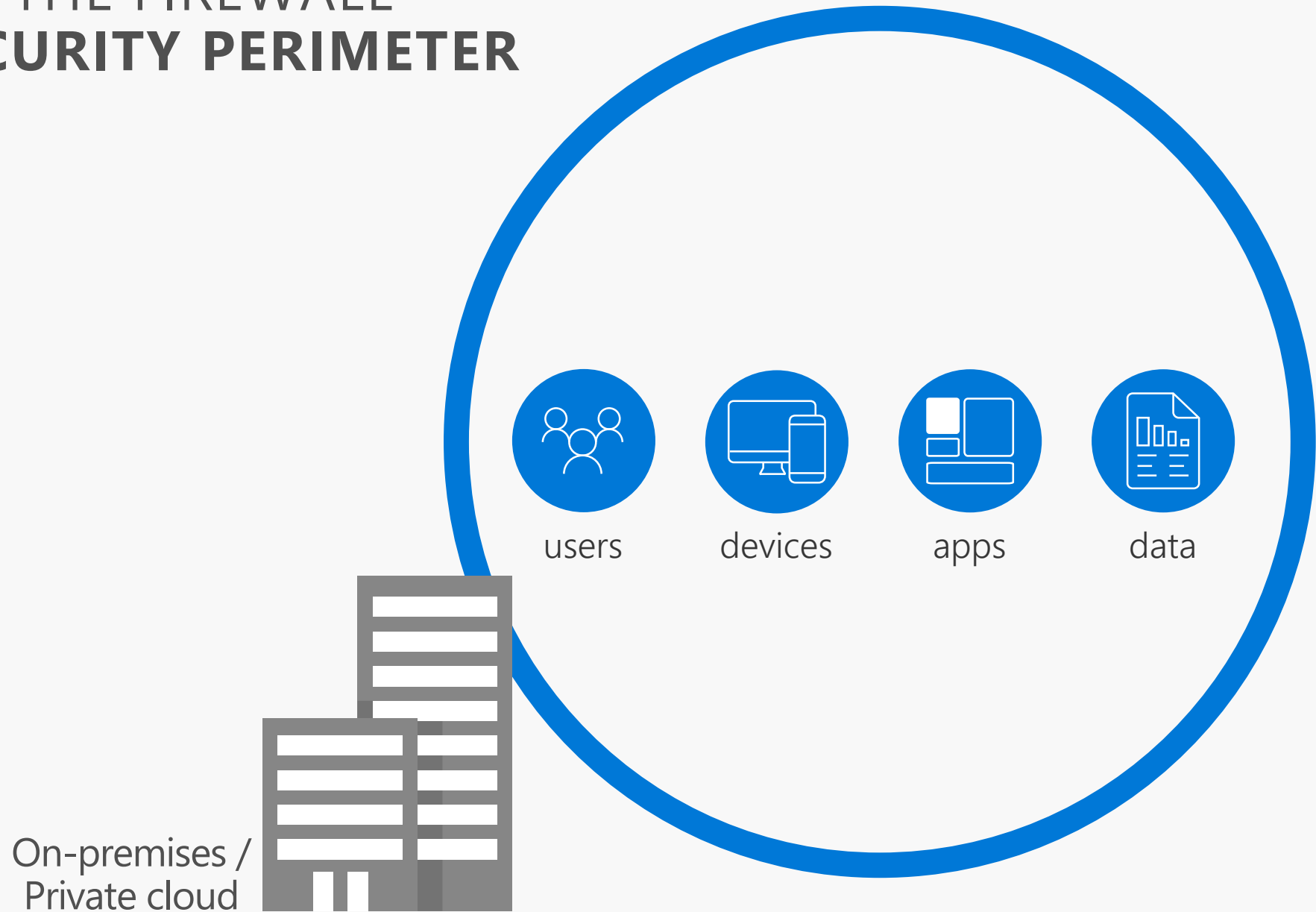




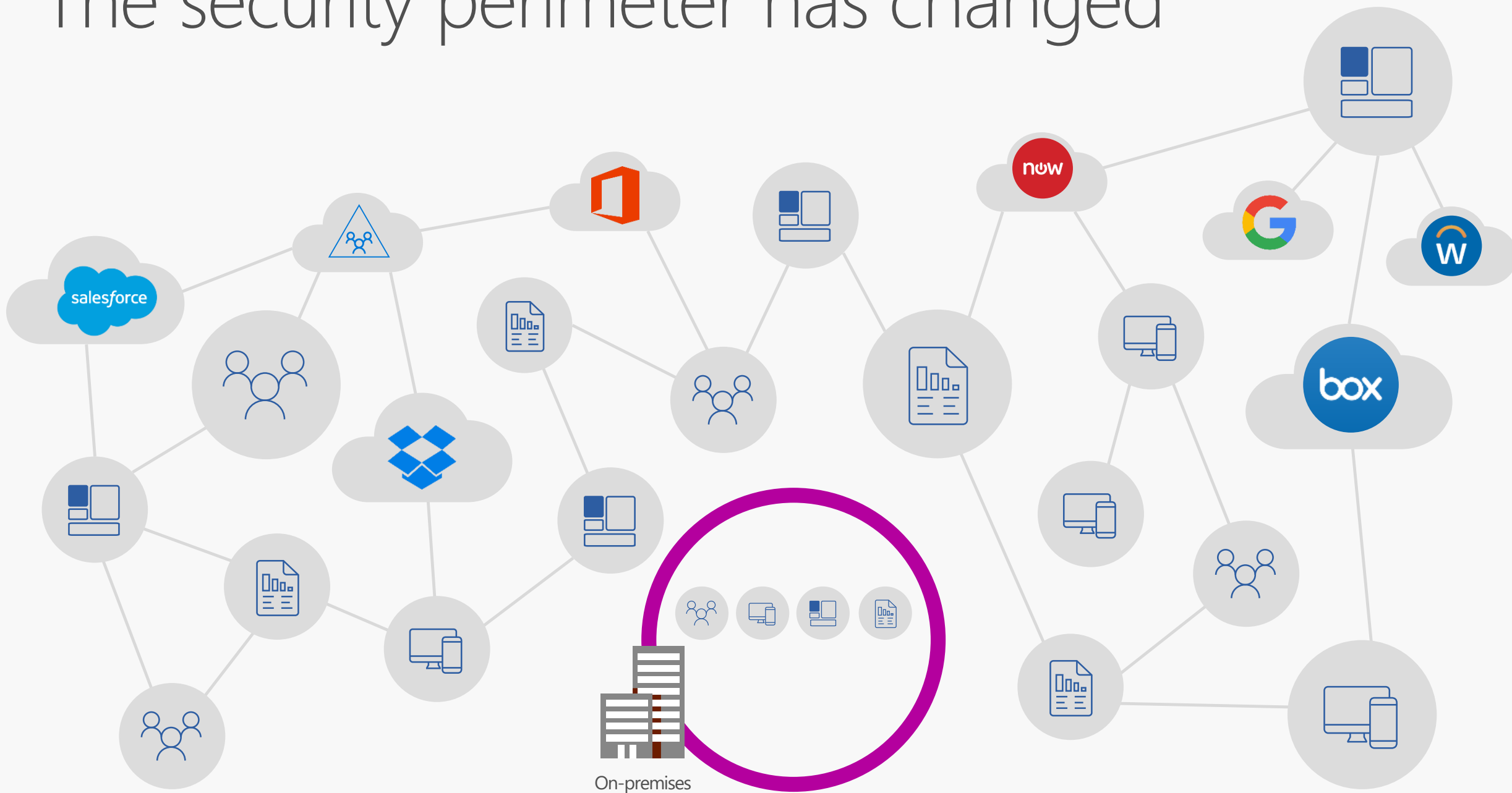
# AIP/DLP

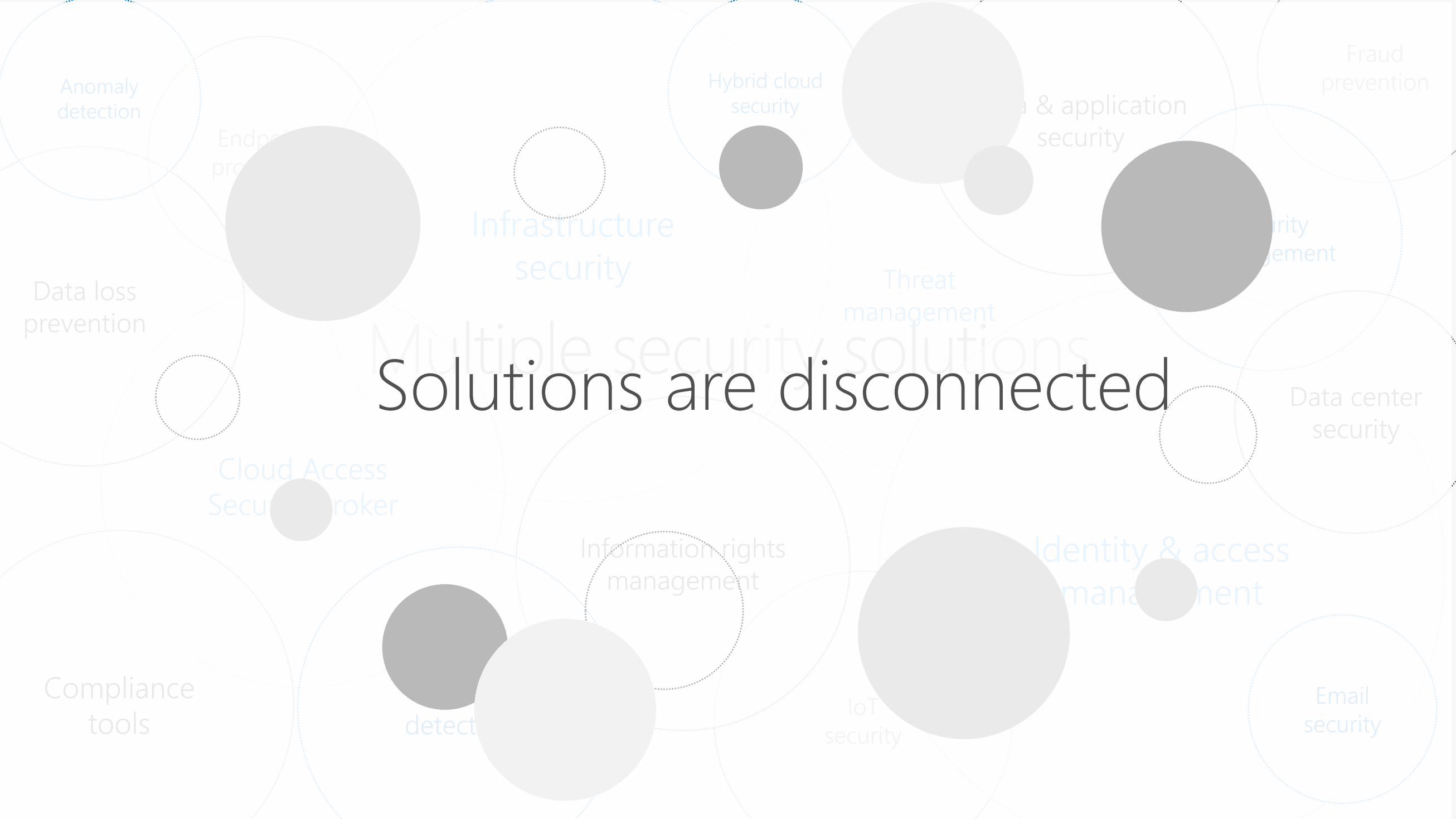
Thomas Eklund  
Technology Solutions Professional

# IN THE PAST, THE FIREWALL WAS THE **SECURITY PERIMETER**



# The security perimeter has changed





Solutions are disconnected

# Focusing security efforts in a complex landscape



Adopt identity-based protection

Enable Seamless and secure identity and access for employees, partners and customers



Apply persistent data protection

Protect sensitive data – wherever it lives or travels.



Protect against sophisticated hackers

Protect, detect and remediate against threats across the modern workplace.

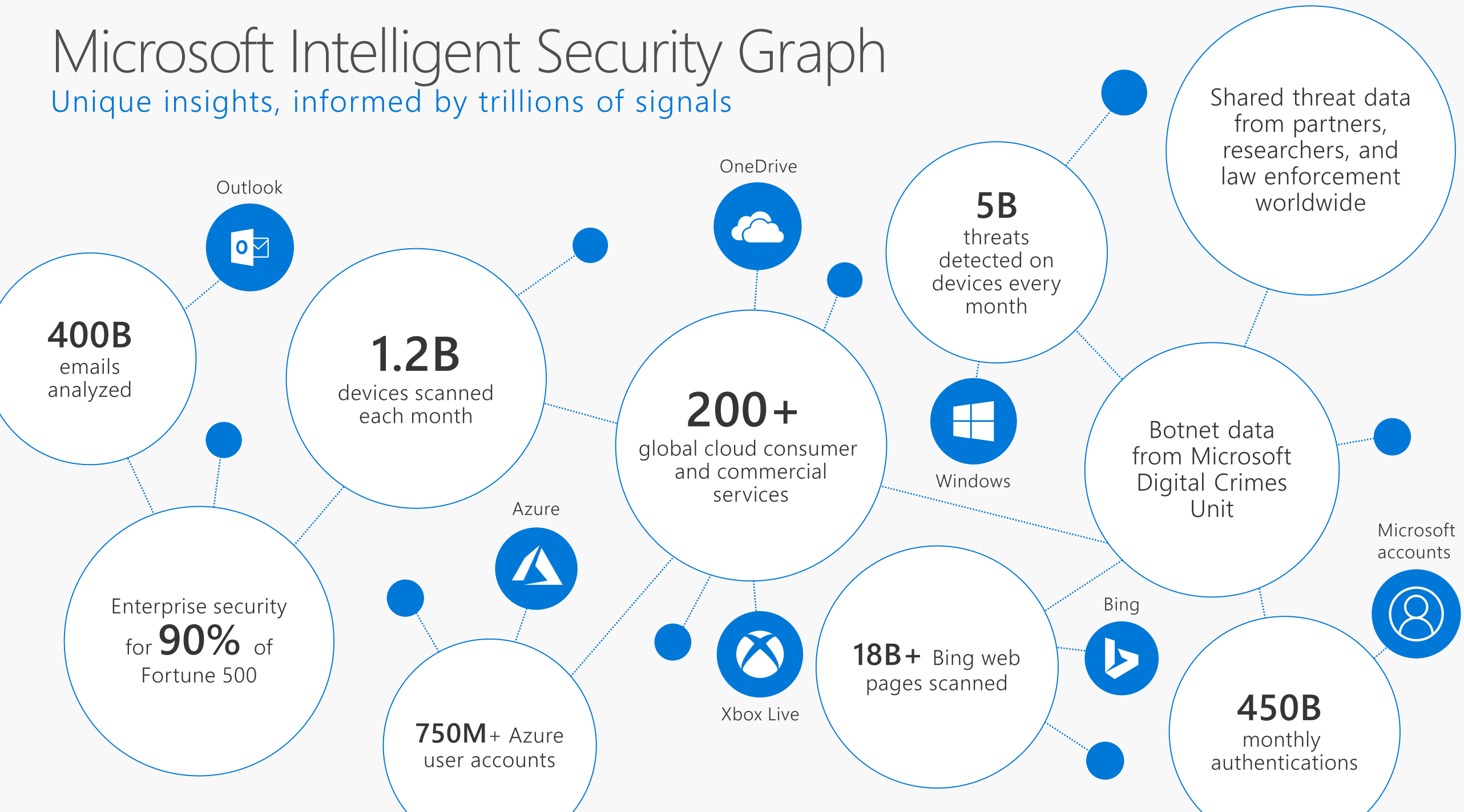


Simplify security management

Streamline management with built-in intelligence and recommendations.

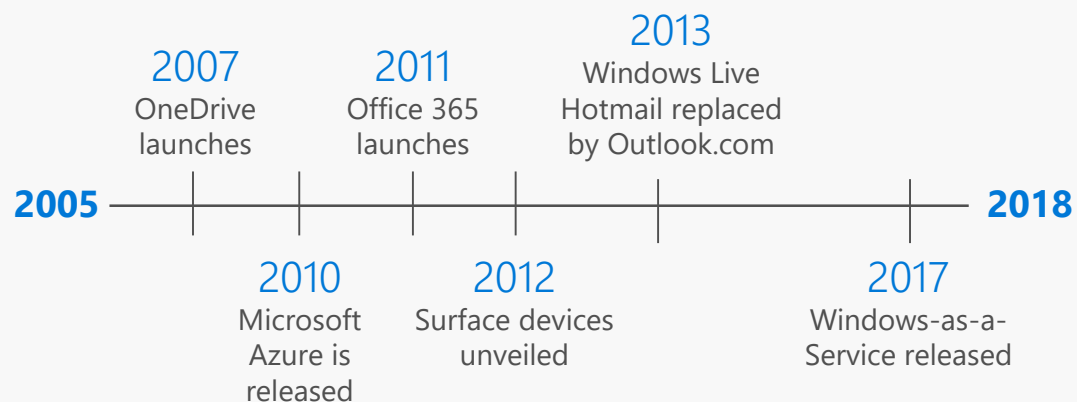
# Microsoft Intelligent Security Graph

Unique insights, informed by trillions of signals



# A secure foundation at global scale

## Experience and history in the cloud



Each physical datacenter protected with world-class, multi-layered protection



Over **100** datacenters across the planet



Boasting a global cloud infrastructure with custom hardware and network protection

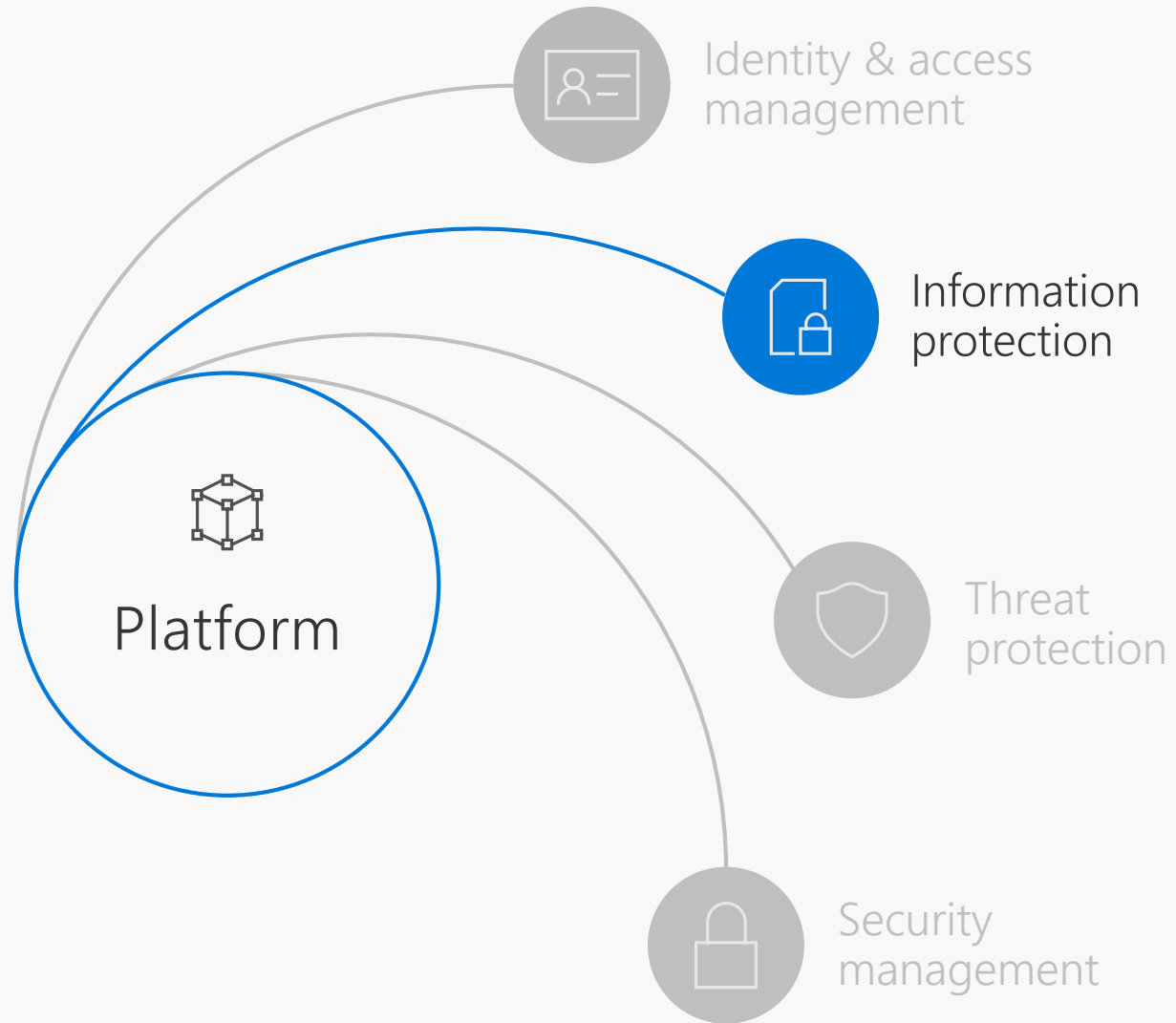


And collectively secured with cutting-edge operational security

- Restricted access
- 24x7 monitoring
- Global security experts

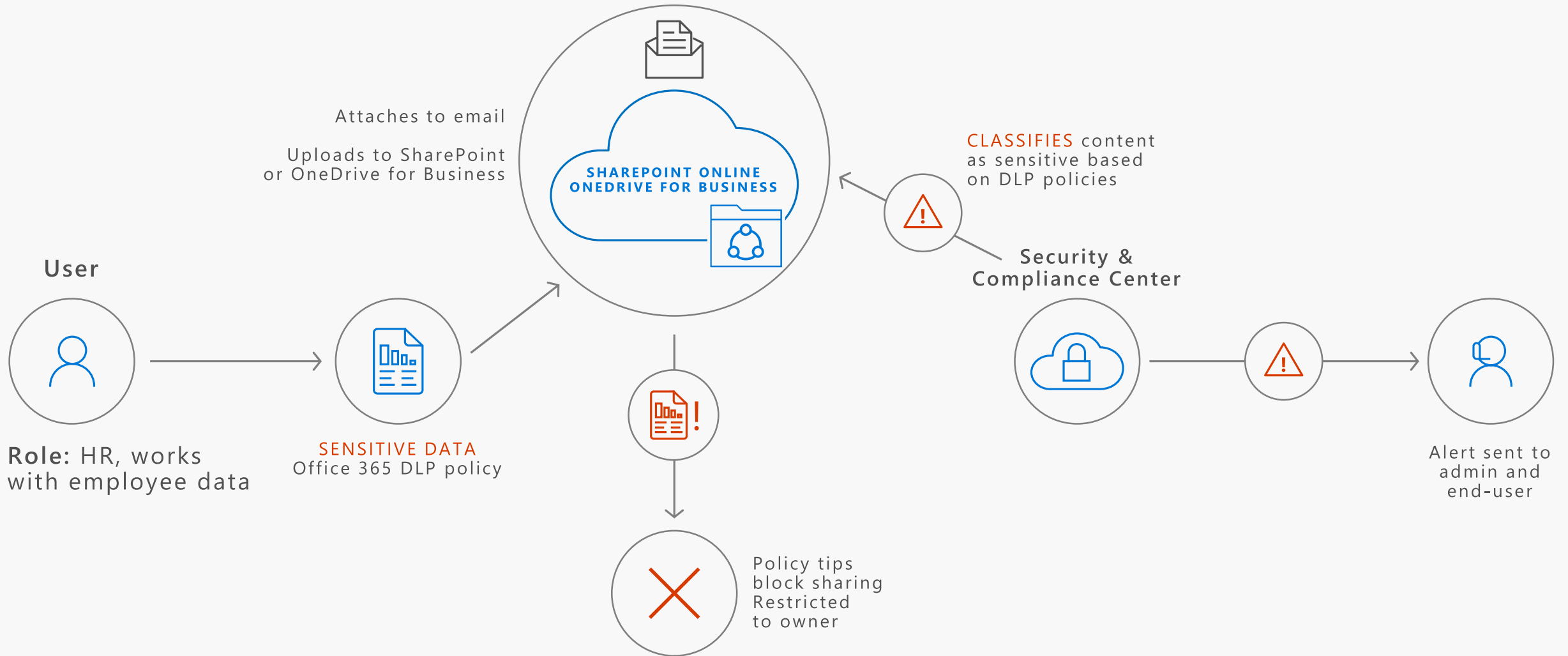


**Built in**  
security





# Prevent data loss in Office 365



# Flexible classification options

## **Automatic classification**

Policies can be set by IT Admins for automatically applying classification and protection to data

## **Recommended classification**

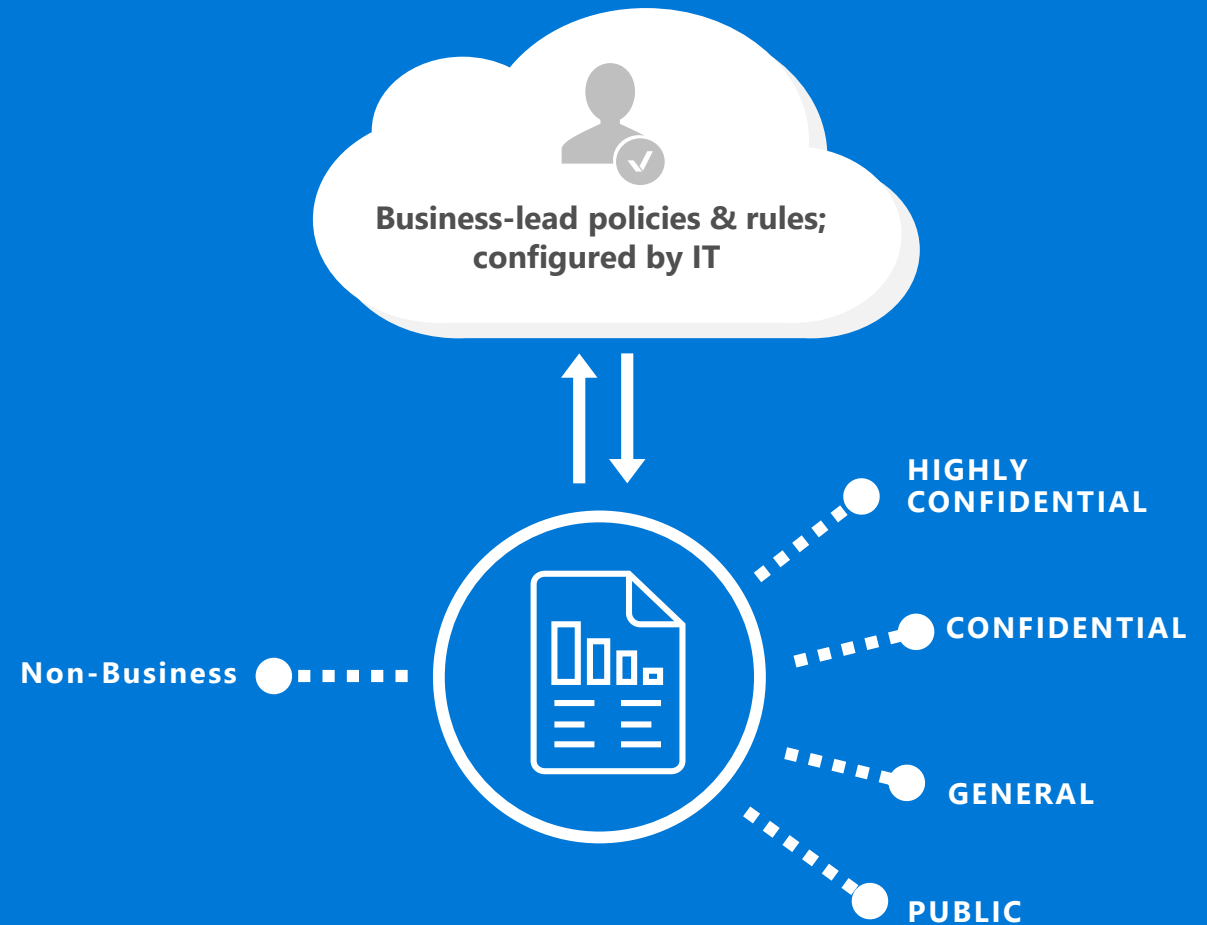
Based on the content you're working on, you can be prompted with suggested classification

## **Manual reclassification**

Users can override a classification and optionally be required to provide a justification

## **User-driven classification**

Users can choose to apply a sensitivity label to the email or file they are working on with a single click



# Apply sensitivity labels that persist with the document

## **Document labeling – what is it?**

Metadata written into document files

Travels with the document as it moves

Readable so that other systems such as DLP engines can understand and take action

Used for the purpose of apply a protection action or data governance action – determined by policy

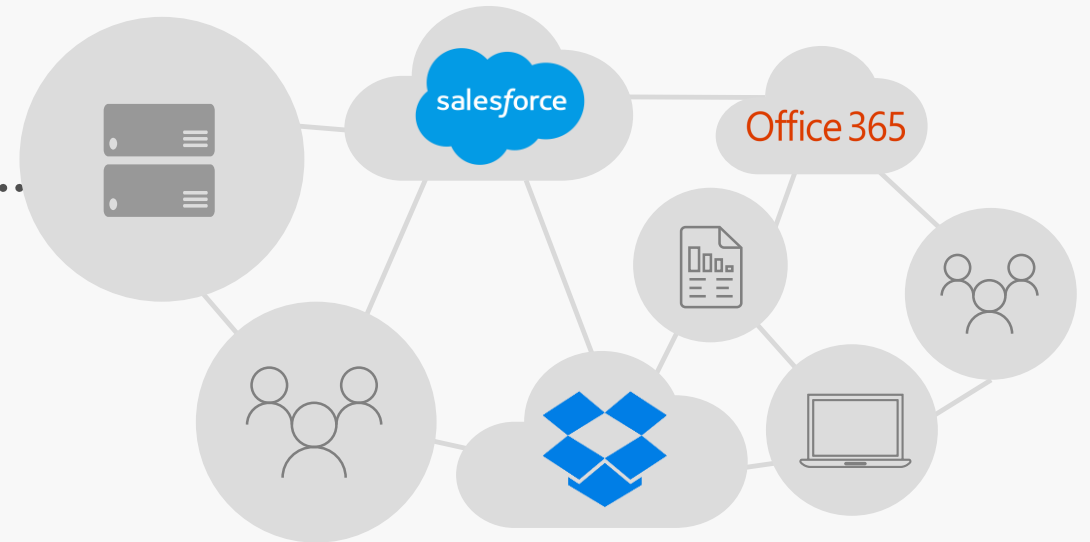
Can be customized per the organization's needs



# Classification & labeling enables policy-driven actions

## Protection actions across locations

Classification and labeling is used to apply protection policies – encryption, permissions, DLP actions, end-user notifications and IT alerts



## Data governance actions for Office 365 files

Classification and labeling is used to apply data governance policies in Office 365, including data retention, expiration and deletion



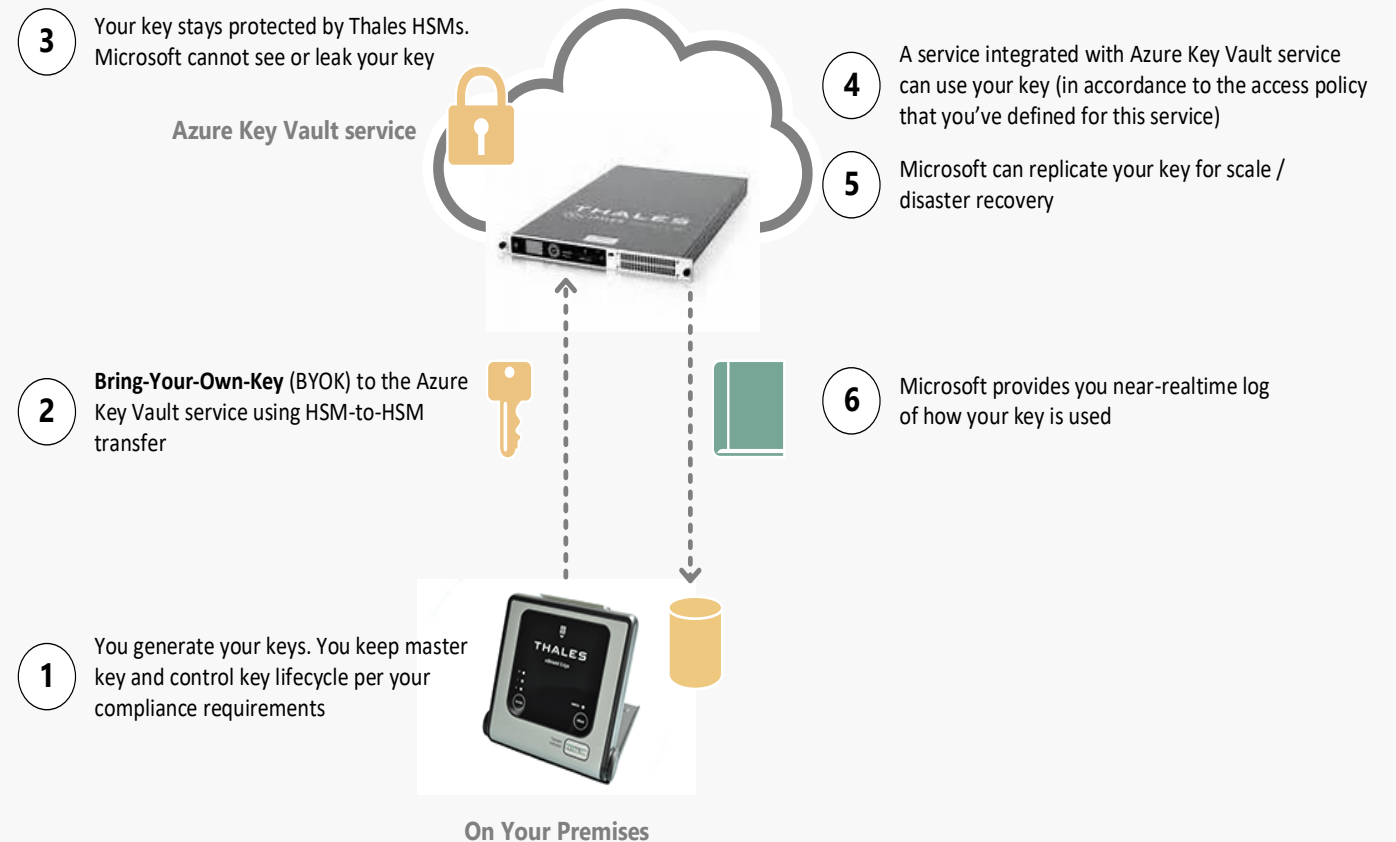
# Time for a demo

Some context

Contoso corporation is planning a merger with a firm (Geneva Racing). How can they collaborate securely and avoid data leakage ?

# Data encryption

Le terme Bring-Your-Own-Key défini un mode où c'est vous-même qui utilisez votre HSM pour générer une clé. Il faut cependant noter que dans le cas Azure/Office365, vous devez répliquer cette clé dans les HSM de Microsoft pour pouvoir utiliser les services Online



# Data encryption

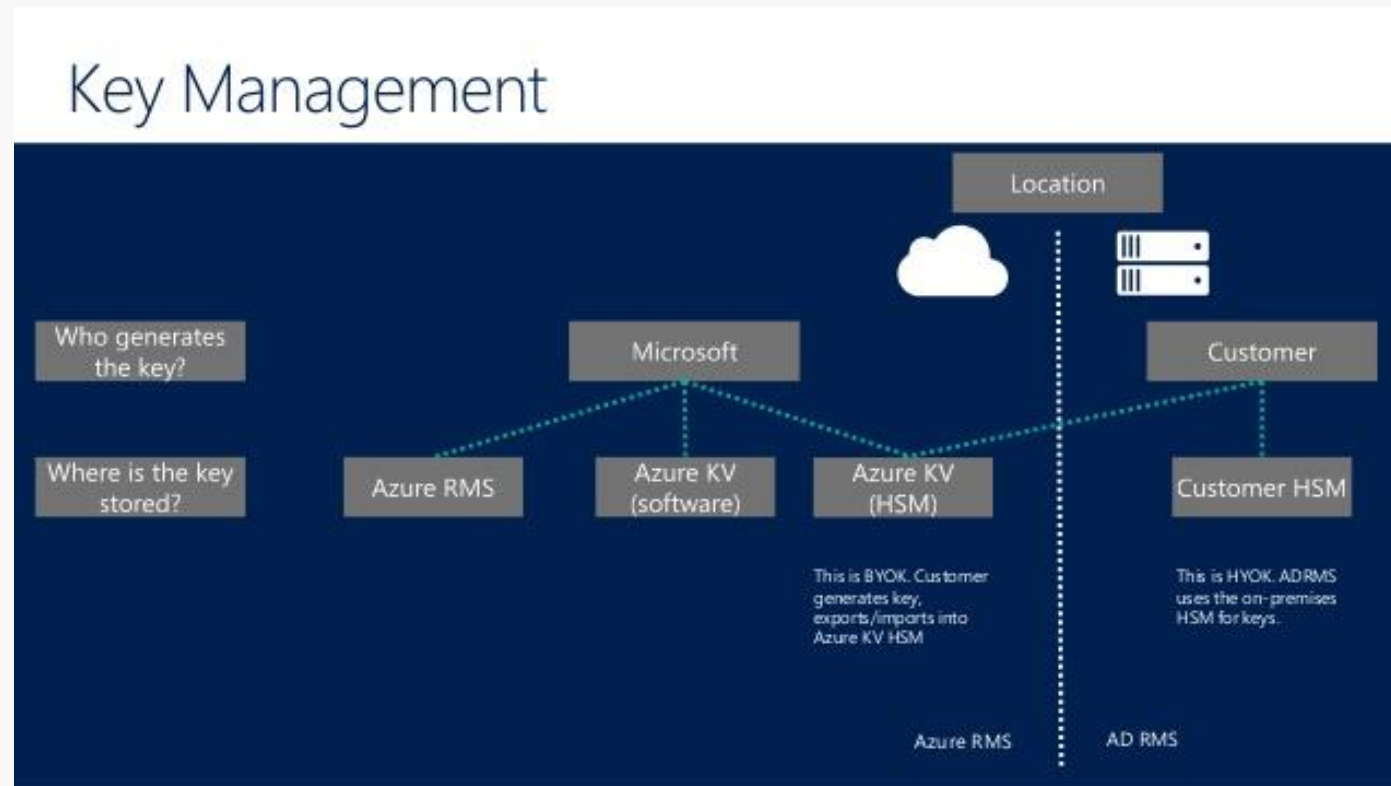
L'utilisation de clé pour chiffrer des emails/documents dans Office365 se dénomme BYOK with AIP :

- Protéger des fichier et emails avec AIP et Azure RMS, services :  
Sharepoint Online, Exchange Online, OneDrive for Business

L'utilisation de clé pour chiffrer les données au repos dans Office 365 se dénomme Customer Key :

- Chiffrer les données au repos sur les services Sharepoint Online, OneDrive for Business, Exchange Online et Skype for Business Online

L'utilisation de clé directement générées sur les HSM de Microsoft s'appelle Microsoft Managed



# Bring Your Own Key (BYOK)

