



# Winter is Coming: And it is called Privacy Regulation

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GIBSEC 2017

**Uber**

The world's largest  
taxi company, owns  
no vehicles.

The world's most  
popular media owner,  
creates no content.

**Facebook**

**Alibaba**

The most valuable retailer,  
has no inventory

The world's largest  
accommodation provider,  
owns no real estate.

**Airbnb**



# Data Economy

## Disruption through Data



UBER

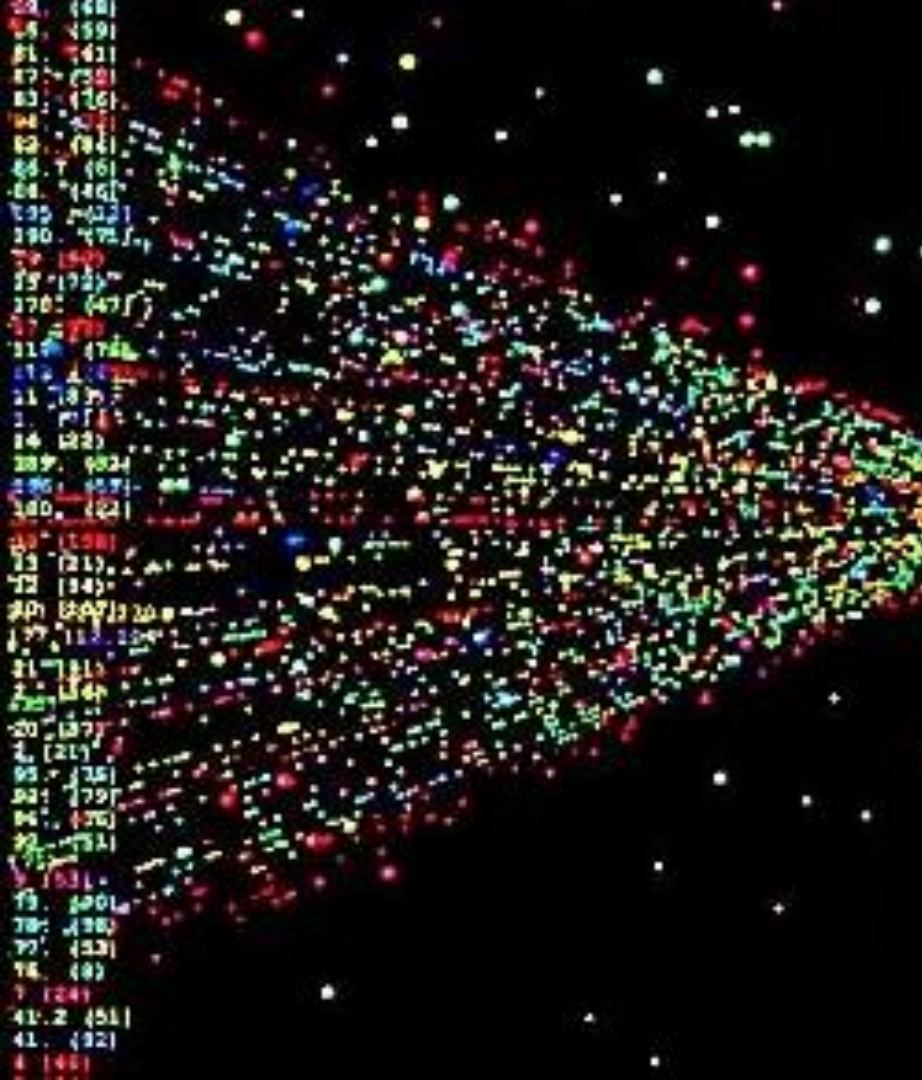


airbnb



gemalto  
security to be free





Script

```
-200 Images  
/Erlenda/tomahawk_banner.png  
/favicon.ico  
200 /sponsors/E (2)  
/sponsors/s (2)  
/sponsors/cal.png  
/sponsors/s (2)  
/sponsors/ (3)  
Misc  
/vlc/2.0.6/win32/vlc-2.0.6-win32.exe.asc  
  
/vlc/2.0.6/win32/vlc-2.0.6-win32.zip  
  
/vlc/2.0.6/win64/vlc-2.0.6-win64.exe  
  
200.2  
/vlc/2.0.6/macos/vlc-2.0.6 (8)  
200  
  
/vlc/2.0.5/vlc-2.0.5.tar.gz.asc  
  
/ (3)
```

\*\*



REVIEWS

NEWS

VIDEO

HOW TO

SMART HOME

CARS

DEALS

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TECH INDUSTRY

# Verizon scrapes \$350 million off deal to buy Yahoo

After its disclosures about massive security breaches, Yahoo apparently wasn't worth the original \$4.83 billion price tag.

www.independent.co.uk/news/business/news/united-airlines-united-continental-shares-slide-drop-expect-passenger-dragged-flight-3411-overbooked-a7678051.html

INDEPENDENT

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# United Airlines suffers near \$1bn loss in value after passenger was violently dragged off overbooked flight



# We Need

A new mindset.....

**PUSH TO OPEN**

**IF THAT DOES NOT WORK PULL**

**IF BOTH DO NOT WORK,  
TRY THE ACTUAL ENTRANCE  
AROUND THE CORNER**



# GDPR Trust Enabler

## Consumer Privacy Rights

- Authorized use only
- Right to be forgotten
- Privacy of children
- Opt in vs. opt out

## Data Sovereignty and Transparency

- GDPR applies wherever that is sent, processed or stored.

## Robust Controls

- Organizations must assess risks to privacy/security and demonstrate they are mitigating them.
- Data protection by design as a default.

## Backed by Significant Penalties

- Organisations that fail to comply with GDPR will face severe penalties (20M / 4% of annual revenues).



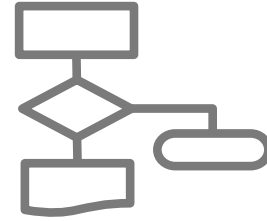


**NEED TO ADAPT OR BECOME IRRELEVANT**

# Data Security **Elements**



**Technology**

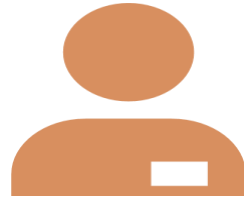


**Process**

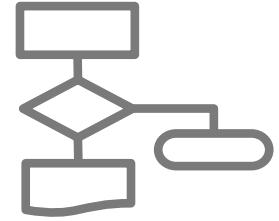
# Data Security **Elements**



**Technology**



**Humans**



**Process**



**ACCELERATE YOUR SITUATIONAL AWARENESS**



# OBJECTIVE

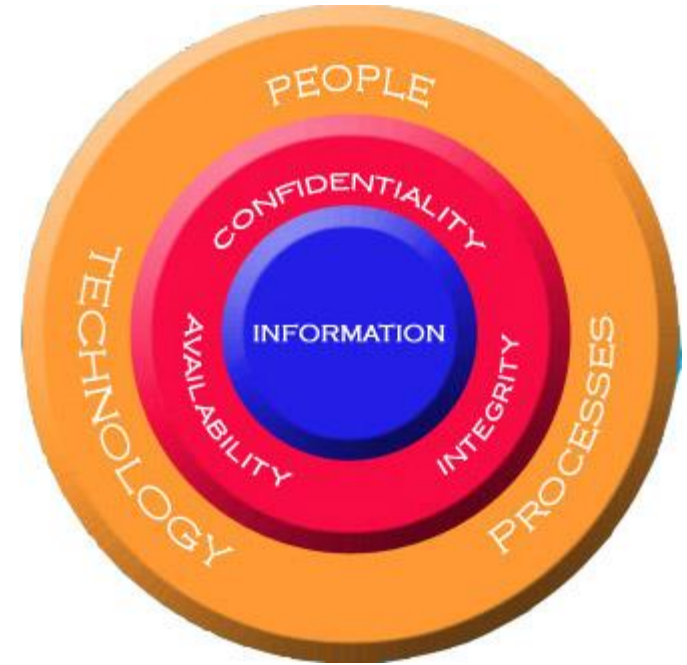
## Back to Basics .....

# Confidentiality, Integrity & Availability

CIA	Risks	Controls	Primary Focus
<b>Confidentiality</b>	Loss of privacy. Unauthorized access to information. Identity Theft	Encryption, Authentication, Access controls	Information Security
<b>Integrity</b>	Information is no longer reliable, accurate or render unreadable	Encryption, Quality Assurance, Audit Logs	Operational Controls Information Security
<b>Availability</b>	Business disruption, Loss of customer confidence, Loss of revenue	BCP Plans and Tests, Back-up storage, Sufficient capacity	Business Continuity Planning

# People, Processes & Technology

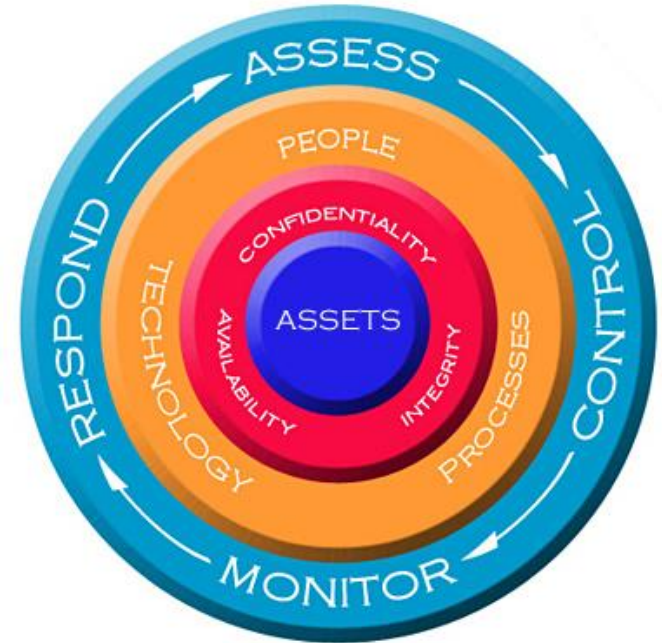
The relationship and integration of people, processes and technology has been an ongoing battle for business for as long as I can remember, and a large pain for any CISO



# Assess, Control, Monitor & Respond

The CIA Framework is based on the following four-step process:

- Assess the risks in the business
- Implement controls to mitigate those risks
- Monitor the performance of those controls
- Respond to instances where the controls are deficient
- Repeat

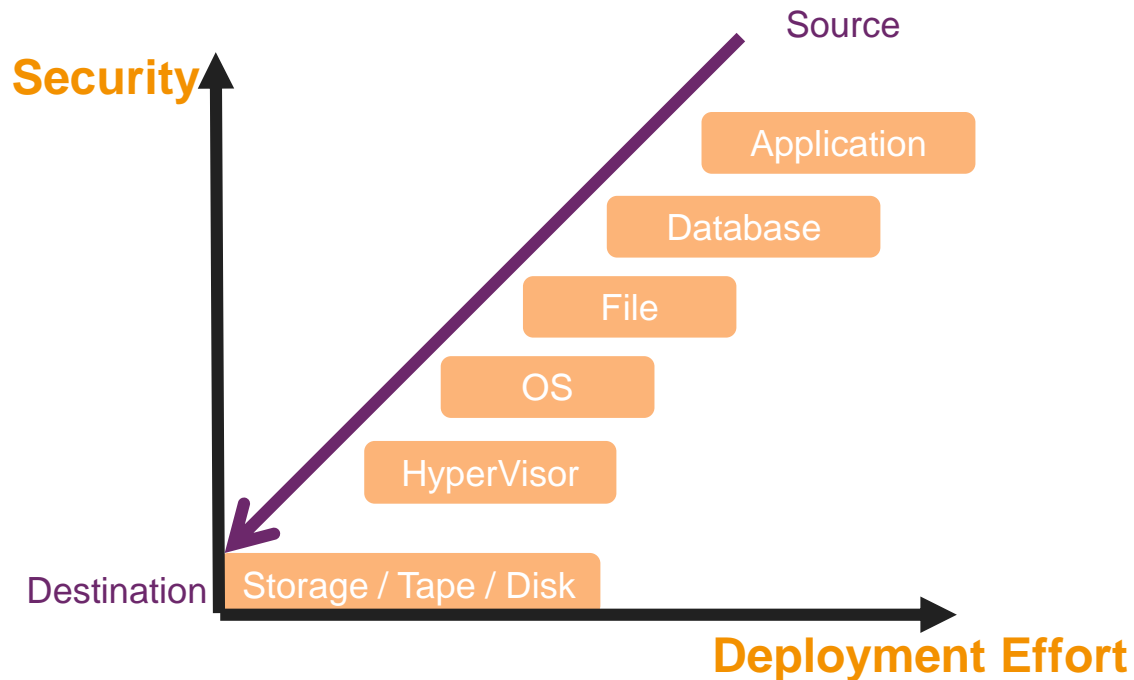




**Basics are.....**

**Who are you protecting from?**

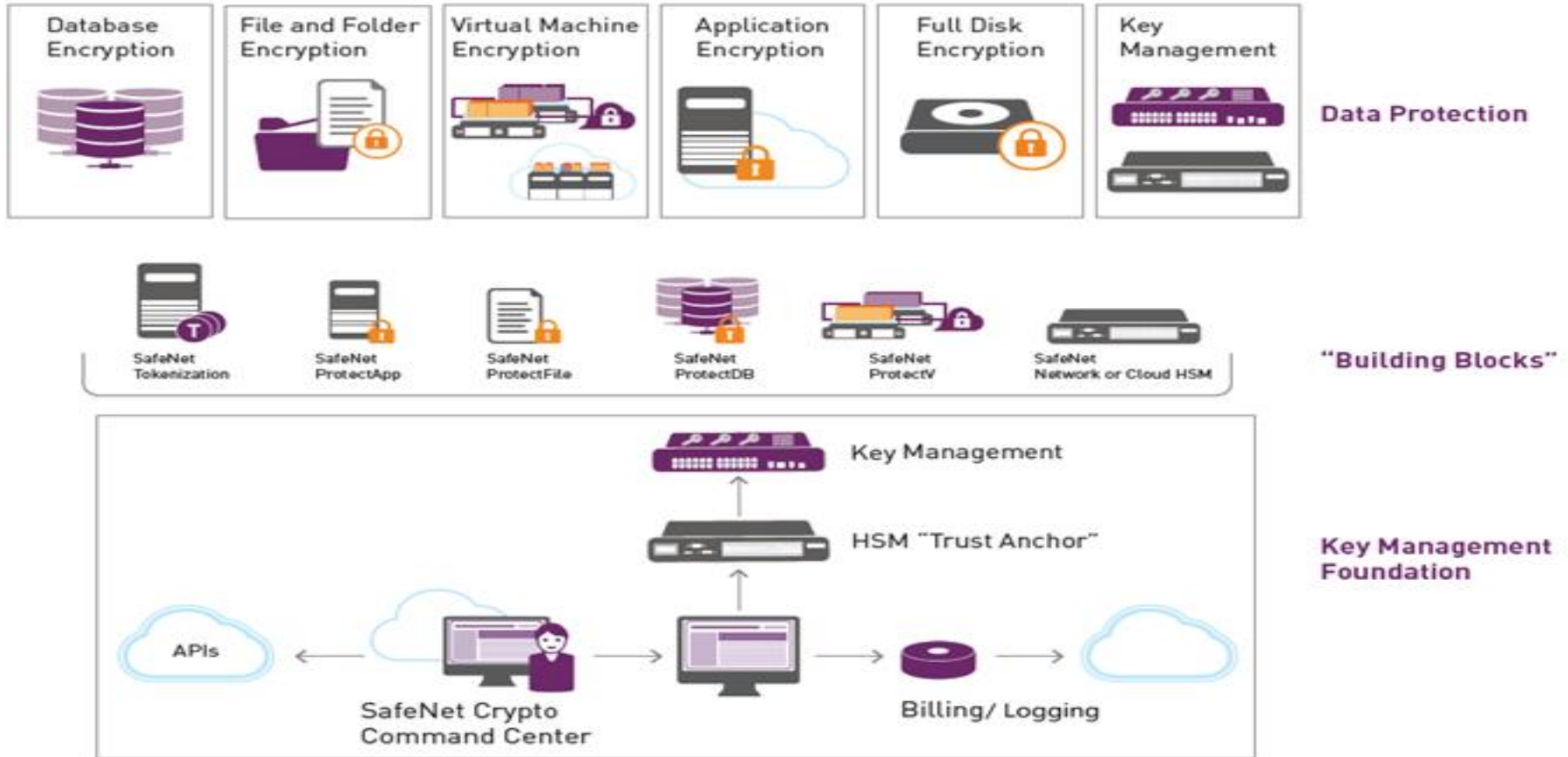
# Where to Encrypt and Manage Keys?



“Many organizations understand the benefits of encryption ... but have difficulty on the question of just where to encrypt the data?”

Jon Oltsik, Senior Analyst, Enterprise Strategy Group

# Gemalto At A High Level

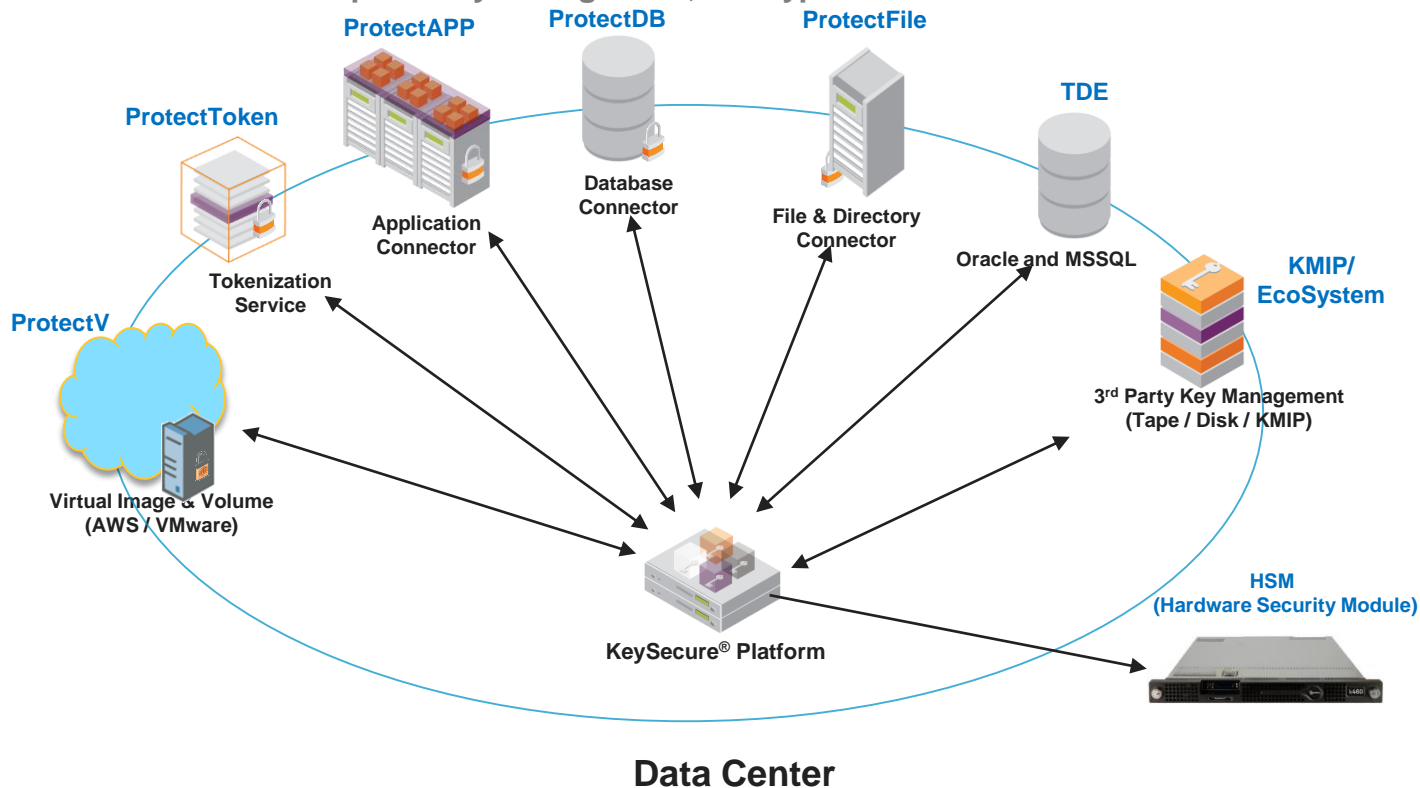


## KeySecure and Connectors

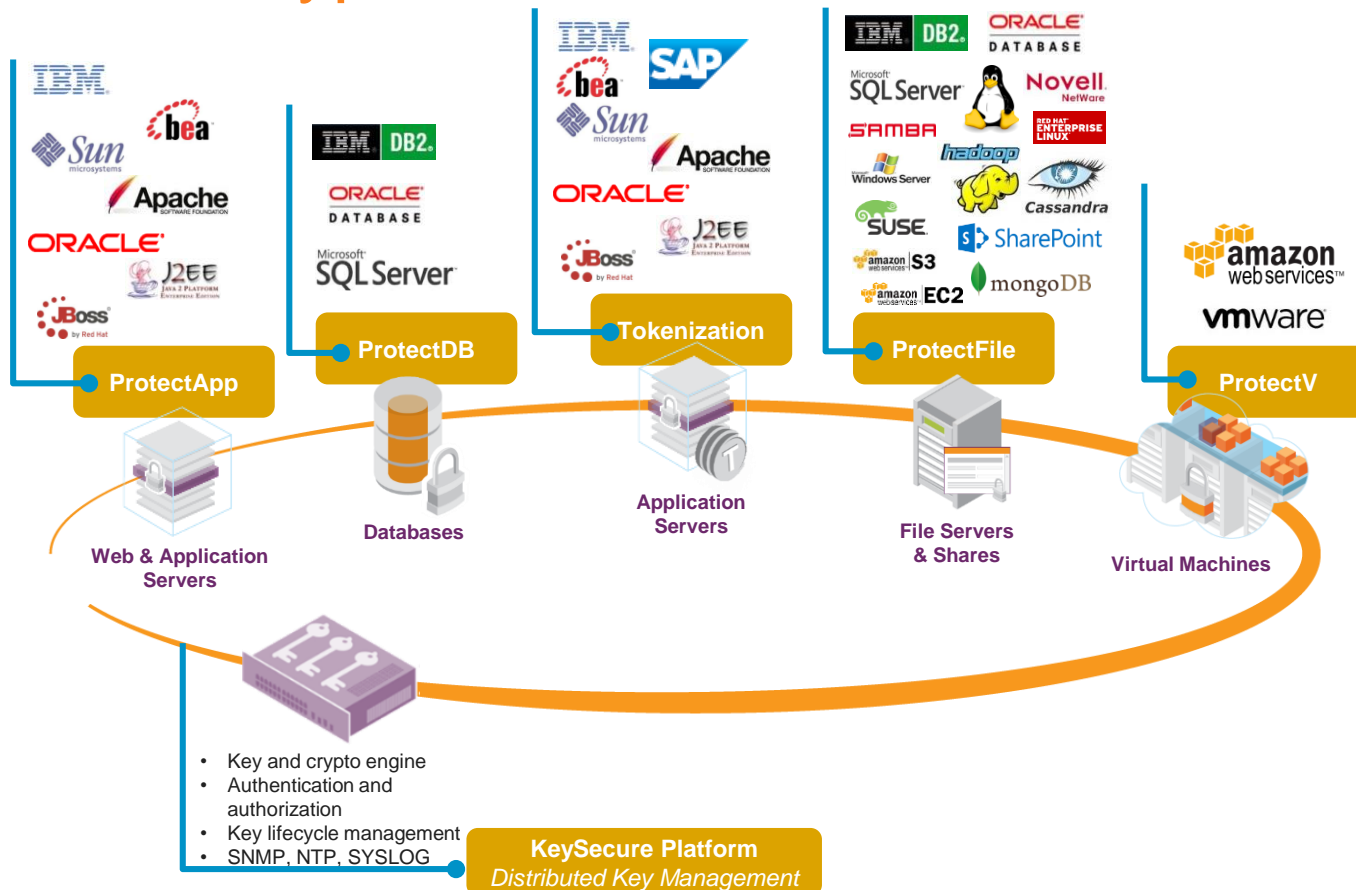


# SafeNet KeySecure® Platform

Enterprise Key Management, Encryption and Tokenization

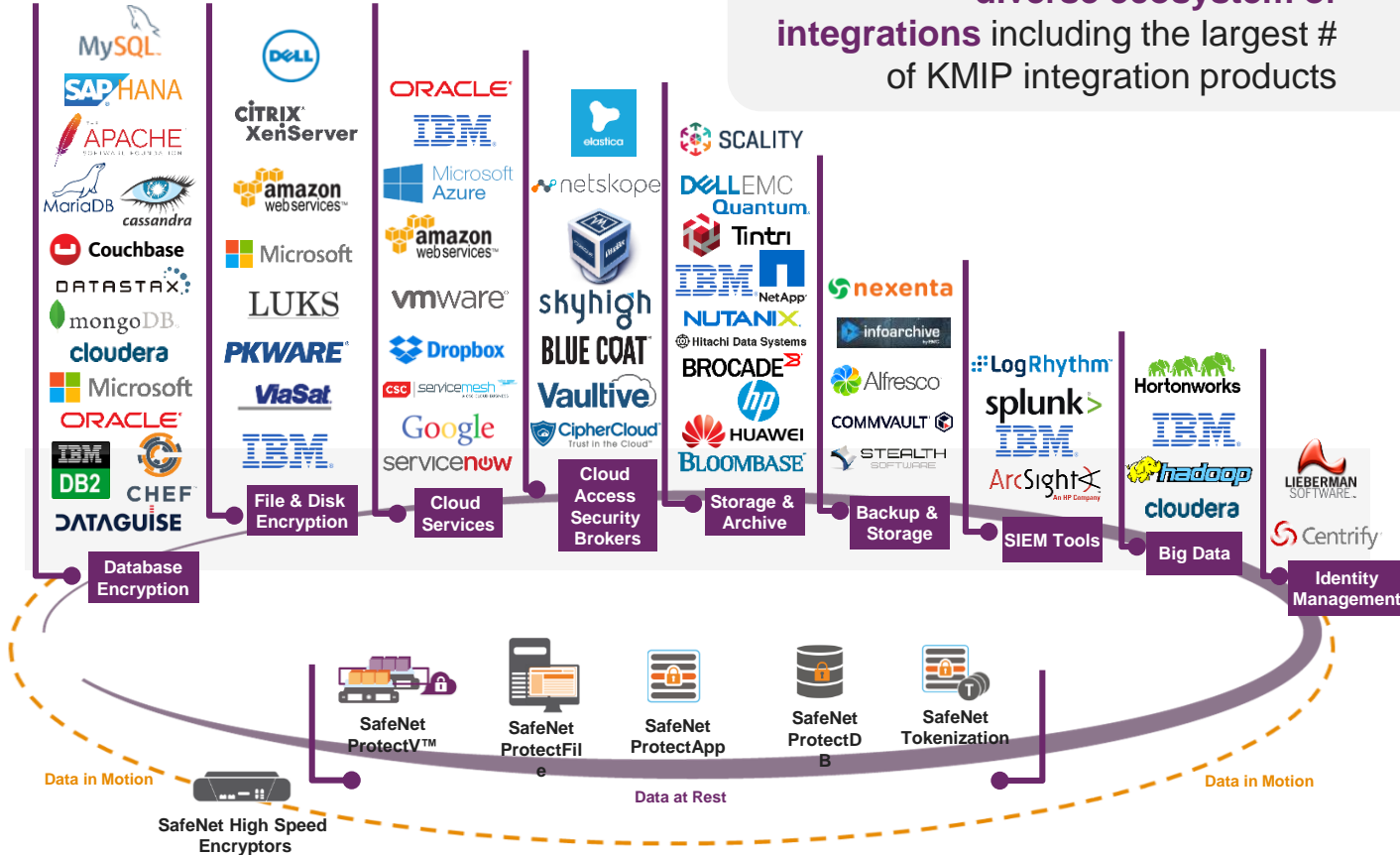


# SafeNet Encryption Connectors



# Gemalto Key Management Integration Ecosystem

The industry's **most expansive and diverse ecosystem of integrations** including the largest # of KMIP integration products



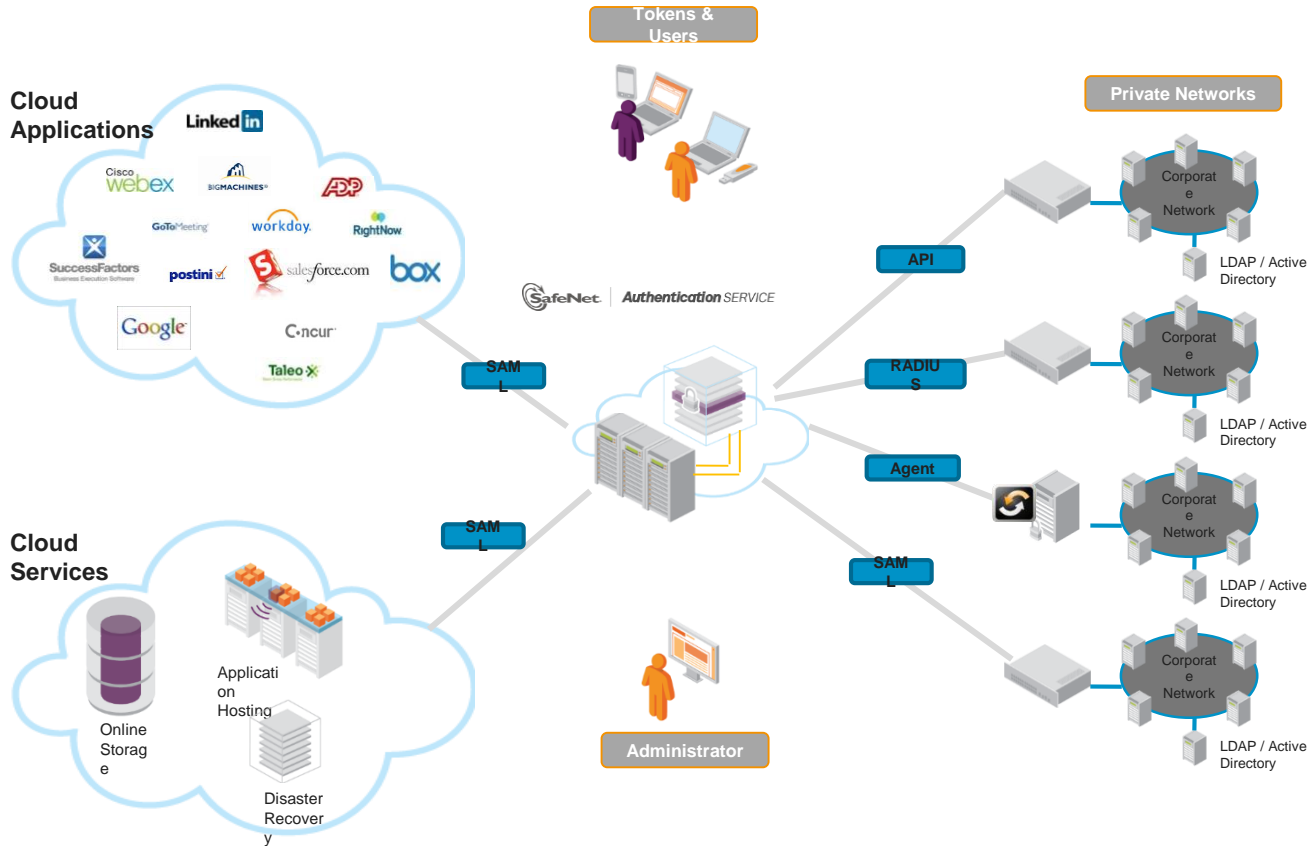
## Authentication As Service



# SafeNet Authentication Service

- ✘ SafeNet Authentication Service delivers fully automated strong Authentication-as-a-Service from the cloud
- ✘ With no infrastructure required, SafeNet Authentication Service
  - ✘ Protects everything – SaaS, apps, networks
  - ✘ Protects everyone – multiple token options
- ✘ Choose from a leading range of Software, SMS, Hardware and Grid tokens
- ✘ Benefit from simple service delivery and reduced overheads through
  - ✘ Automation of everything: provisioning, reporting, self service
  - ✘ Security policy engine and templates
  - ✘ Total flexibility to customize everything: tokens, processes, policies

# Introduction - Protect Everything: Networks, Applications and Cloud Services



# Introduction - Widest Choice of Tokens, including Tokenless & 3rd Party

- ✧ Authenticators for every user type – and an increasing focus on commoditization



Authenticators that:

- ✓ Don't expire
- ✓ Seed keys can be owned by the subscriber
- ✓ Can be easily re-assigned to new users
- ✓ Easy deployment saves cost and time
- ✓ A token can be included in the service charge



# Forget

What you know about Information  
Security



To

Situational **AWARE**



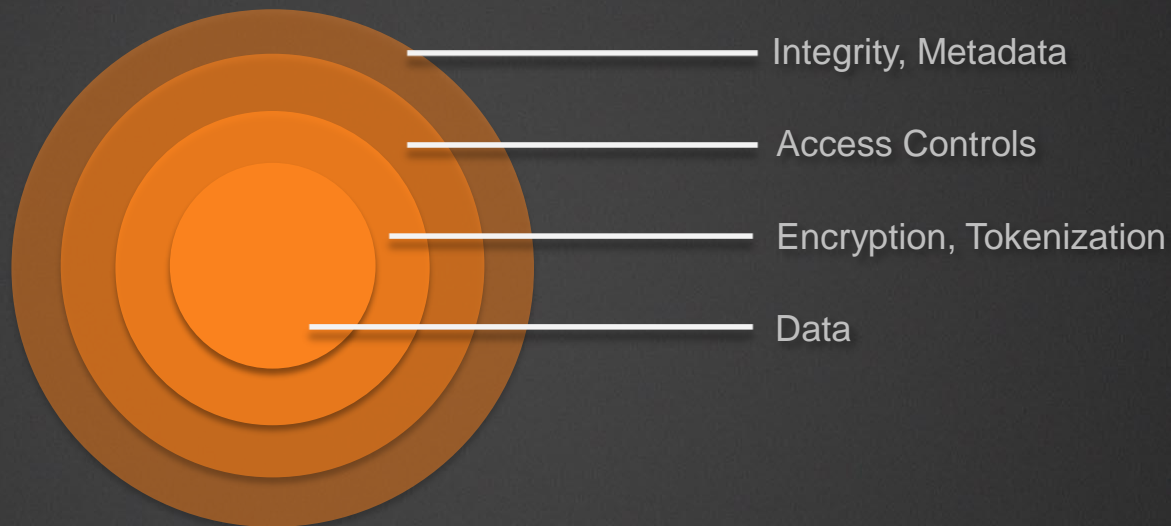
✧  
✧  
✧ **Think like a bad  
guy...**

**What is he after?**



**ACCELERATE YOUR SITUATIONAL AWARENESS**

# Anatomy of a Kernel of Data



# Thank You

Manoj Bhati

# SITUATIONAL AWARENESS