



Demystifying the HSM Cloud

Understanding HSM as a Service





Security is the foundation that Business Models and Ecosystems around Cloud are built on!



Let's talk about Hardware Security Modules

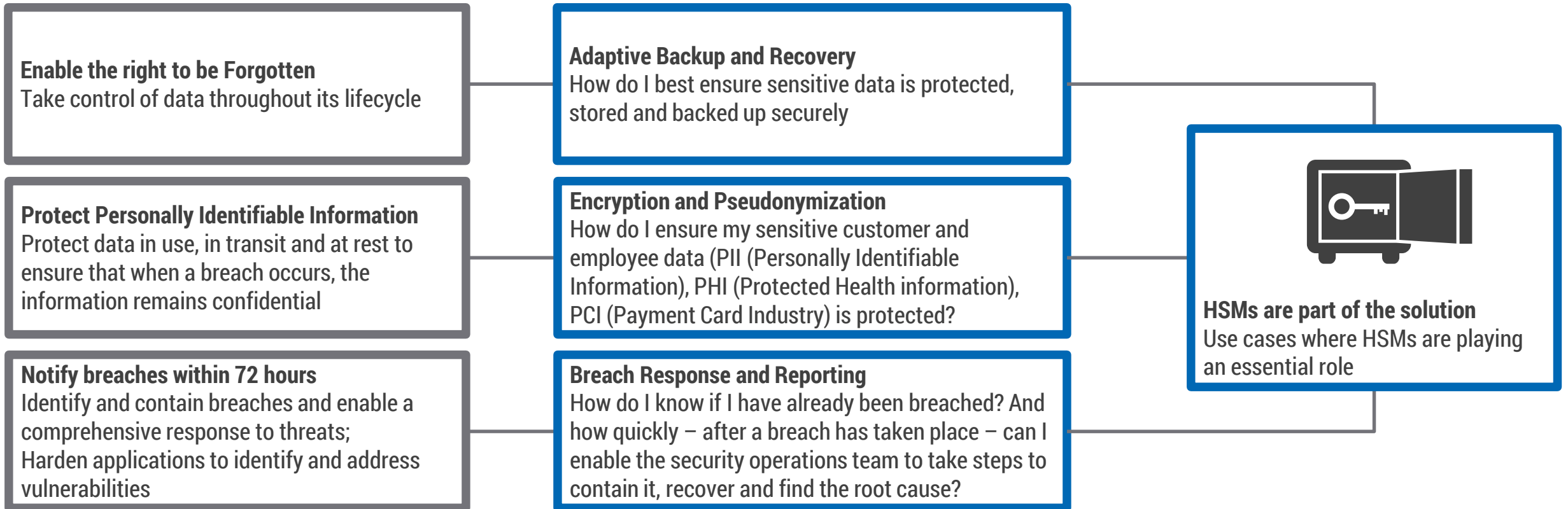
no thank you

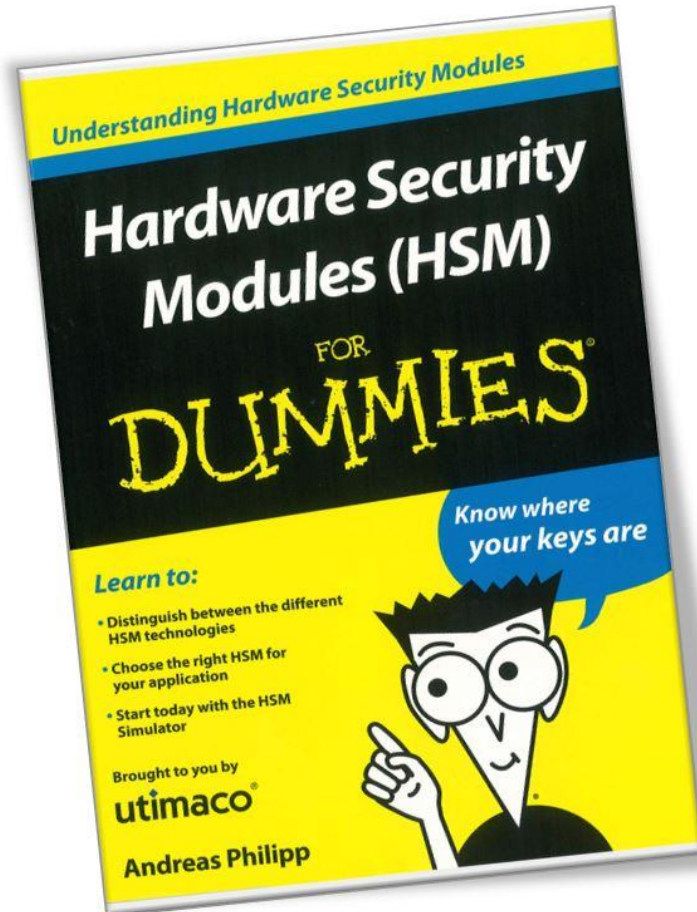
i'm good

You are not using HSMs?

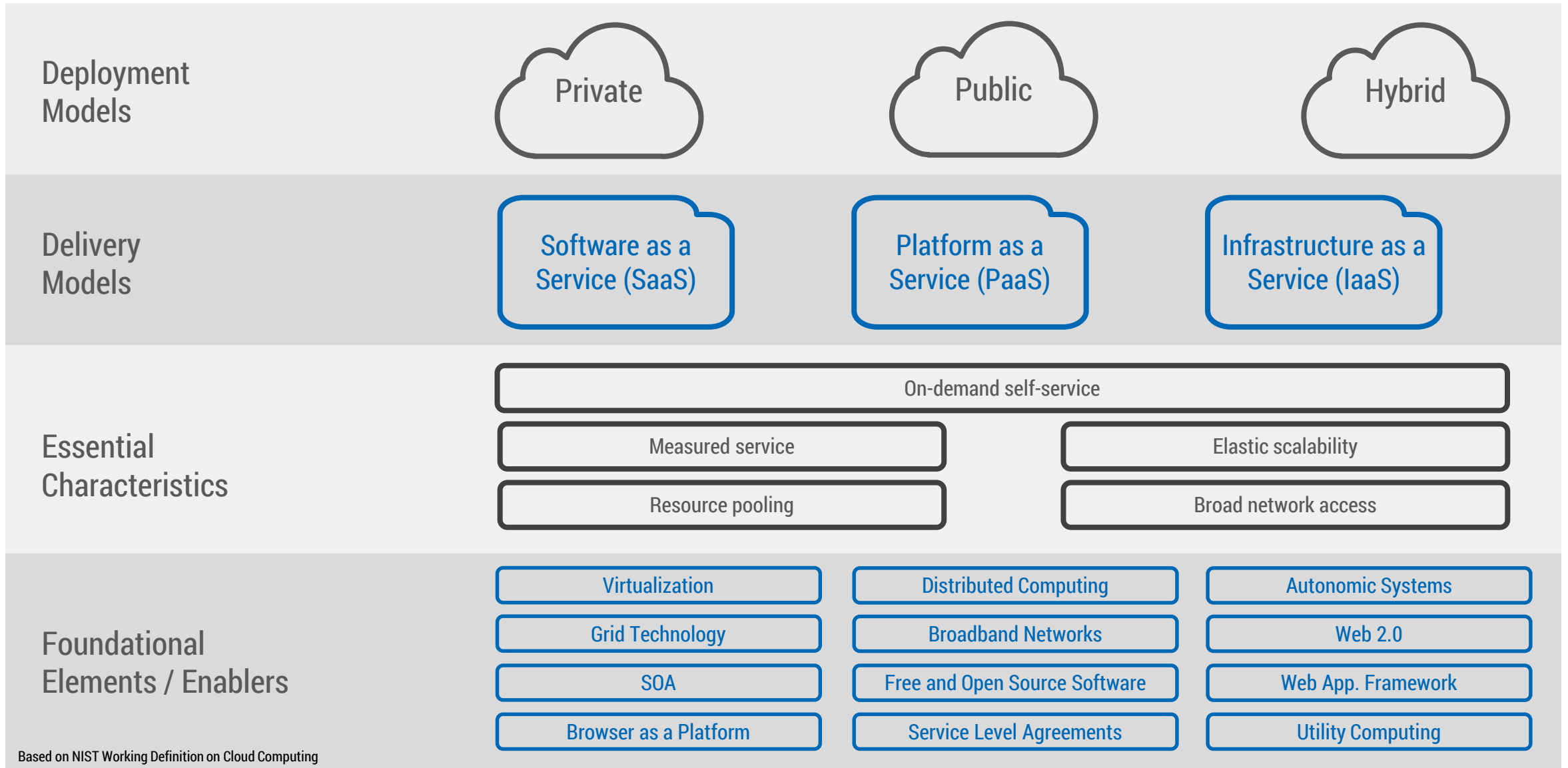
Wait a moment! What about:

- PKI and Identity Management (Nexus, OpenTrust, Entrust, CyberArk, PrimeKey,...)
- Database Encryption
- Microsoft application (Server / SQL Server / RMS /...)
- Key Management Solutions
- DNSSEC
- PCI-DSS
- TLS / SSL

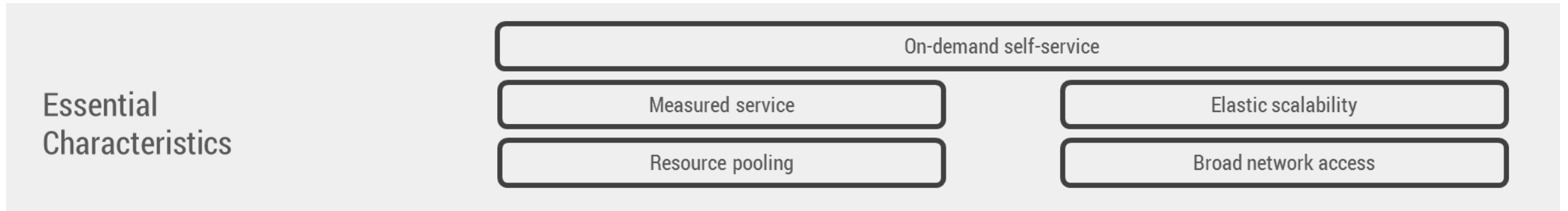




**But what is a
CLOUD
HSM?**



Based on NIST Working Definition on Cloud Computing



On-demand self-service

Browser and a credit card

Measured service

Services by subscription, pay per use, pay per key usage,

Resource pooling

Pooled together from across multiple geographic locations

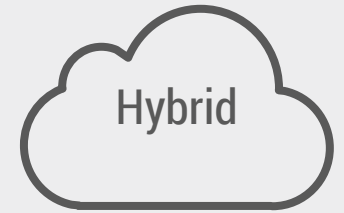
Elastic scalability

Increase or decrease HSM computing resources

Broad network access

HSM in the Cloud broad network access for Private Cloud and hybrid concepts

Deployment Models



Public Cloud

Public HSM clouds enable you to tap into a pool of shared resources and pay only for the resources you actually consume. You don't need to know where or how the services are created.

Private Cloud

Private HSM clouds offer similar capabilities to public HSM clouds, but they run on dedicated IT only. Some companies host their private clouds on dedicated, third-party IT.

Hybrid Cloud

Hybrid HSM clouds combine private and public HSM cloud services to offer the security of private HSM clouds and the enormous scalability of public HSM clouds.

Delivery
Models

Software as a
Service (SaaS)

Platform as a
Service (PaaS)

Infrastructure as a
Service (IaaS)

IaaS – Move to it –

Hardware Security Modules delivered as a service.

PaaS – Build with it –

IaaS combined with middleware and development tools, such as programming and scripting languages – delivered as a service. HSMs as PaaS offer a validated and integrated environment for creating applications.

SaaS – Use it –

IaaS and possibly PaaS combined with software applications and delivered as a service. Users get access to those applications with a browser. Managed PKI is a typical application that is well known and widely used.

YOU KNOW YOU NEED HSM AS A SERVICE WHEN...

The 4 big QUESTIONS:

Does your Business see demand for and usage of your HSM fluctuate sharply at different times of the year?

Are you always running out of CryptoPower of your HSM?

Do you want to create a more sustainable Business environment?

Do you need support for new pilot product offerings that demand HSM usage?



What's ahead in the market?

IoT + Cloud

Fintech

Industrial IoT /
Industrie 4.0

M2M

What's ahead @ Utimaco?

The Utimaco HSM optimized for Cloud usage

- Multi-Tenancy
- Tenant Backup Key (TBK)

Watch out for our next product release!

- Release Webinar (Partners & Customers only)
- New HSM Simulator available soon



Thanks for your attention!



Andreas Philipp

VP Business Development
andreas.philipp@utimaco.com

Utimaco IS GmbH

Germanusstraße 4
52080 Aachen
Germany
Tel +49 241 1696 200
Fax +49 241 1696 199
Email hsm@utimaco.com

Utimaco Inc.

Suite 150
910 E Hamilton Ave
Campbell, CA 95008
United States of America
Tel +1 844 884 6226
Email hsm@utimaco.com