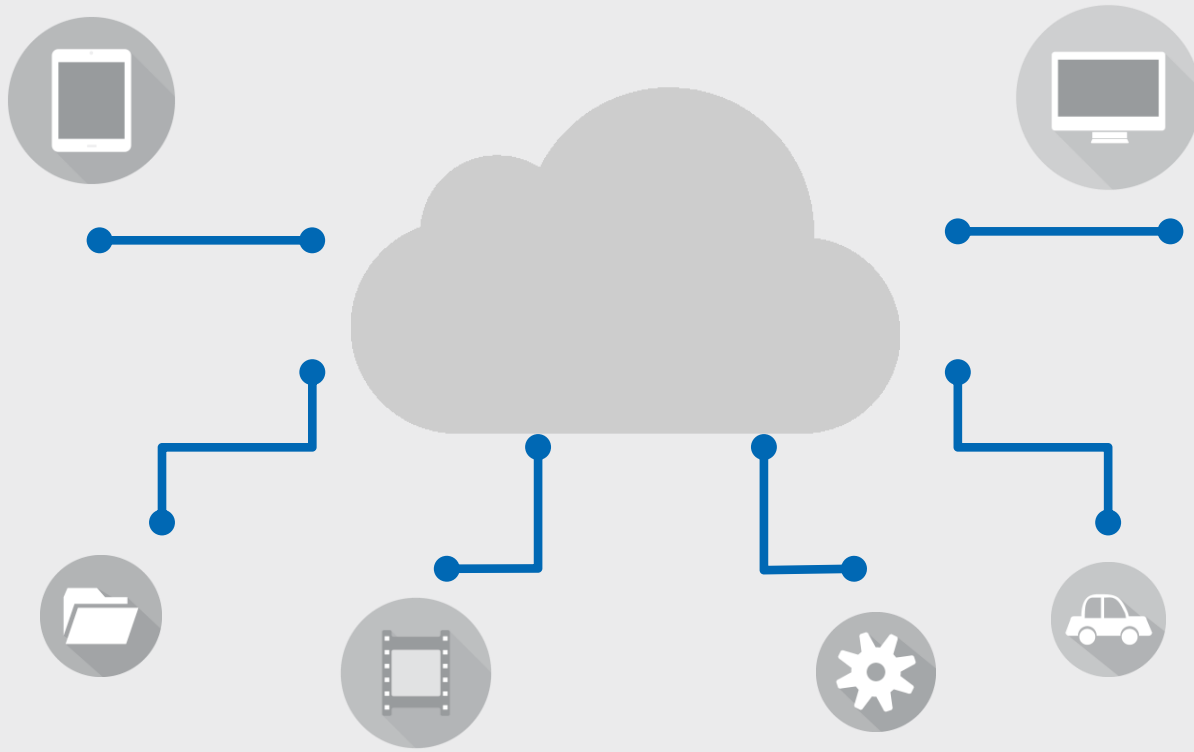




Why HSMs are needed to make Cloud a secure place

Utimaco IS GmbH
Andreas Philipp
VP Business Development

utimaco[®]



The basic
benefits of
cloud
computing
are fairly
obvious...

The cloud offers

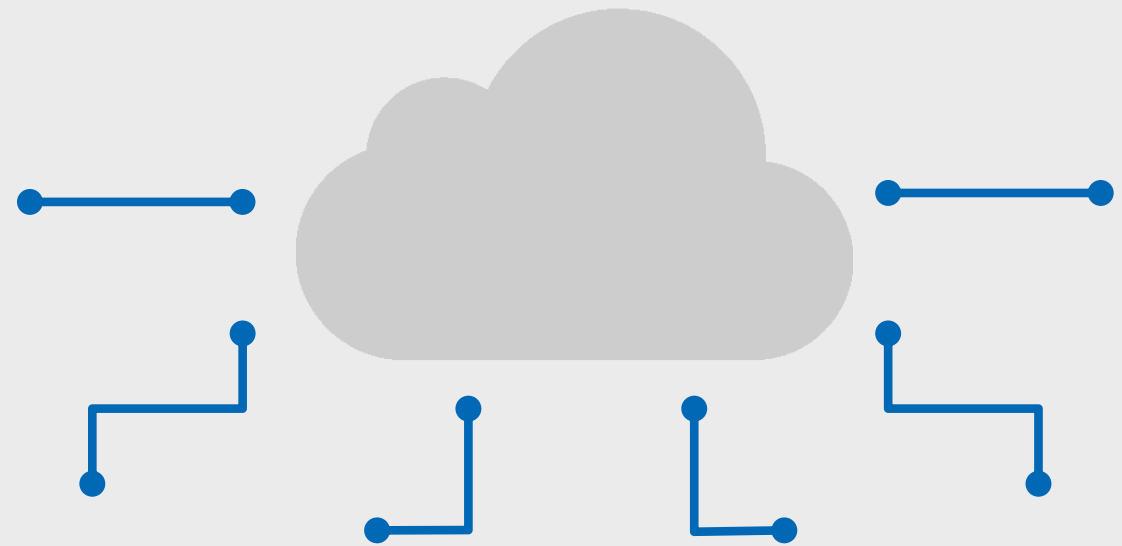
scalability

agility

simplicity



The impact
of cloud
computing
extends far
beyond
the IT
department.

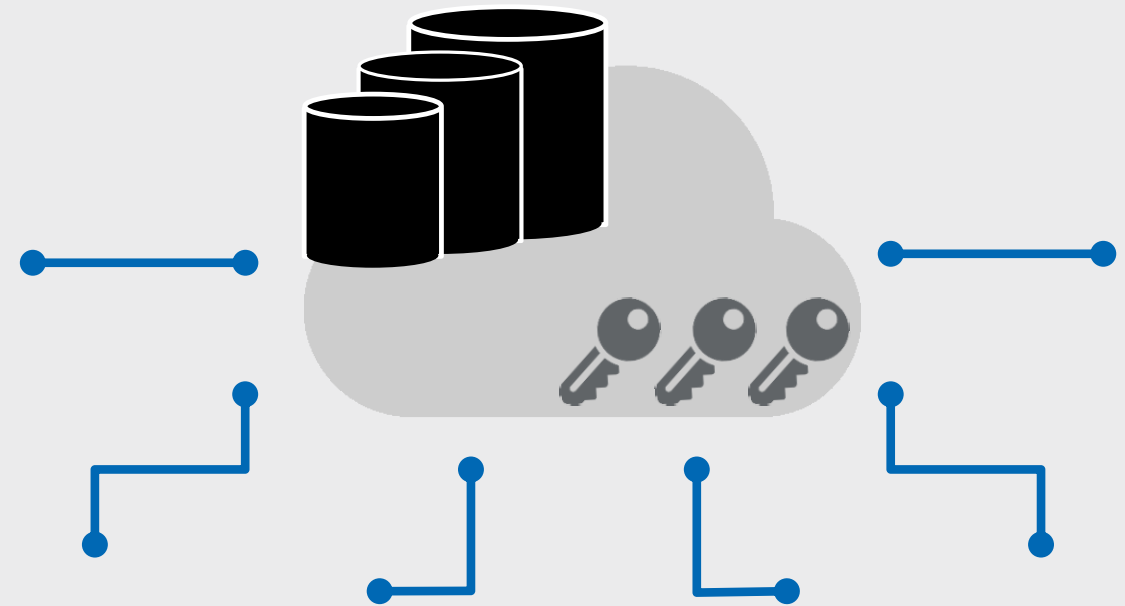


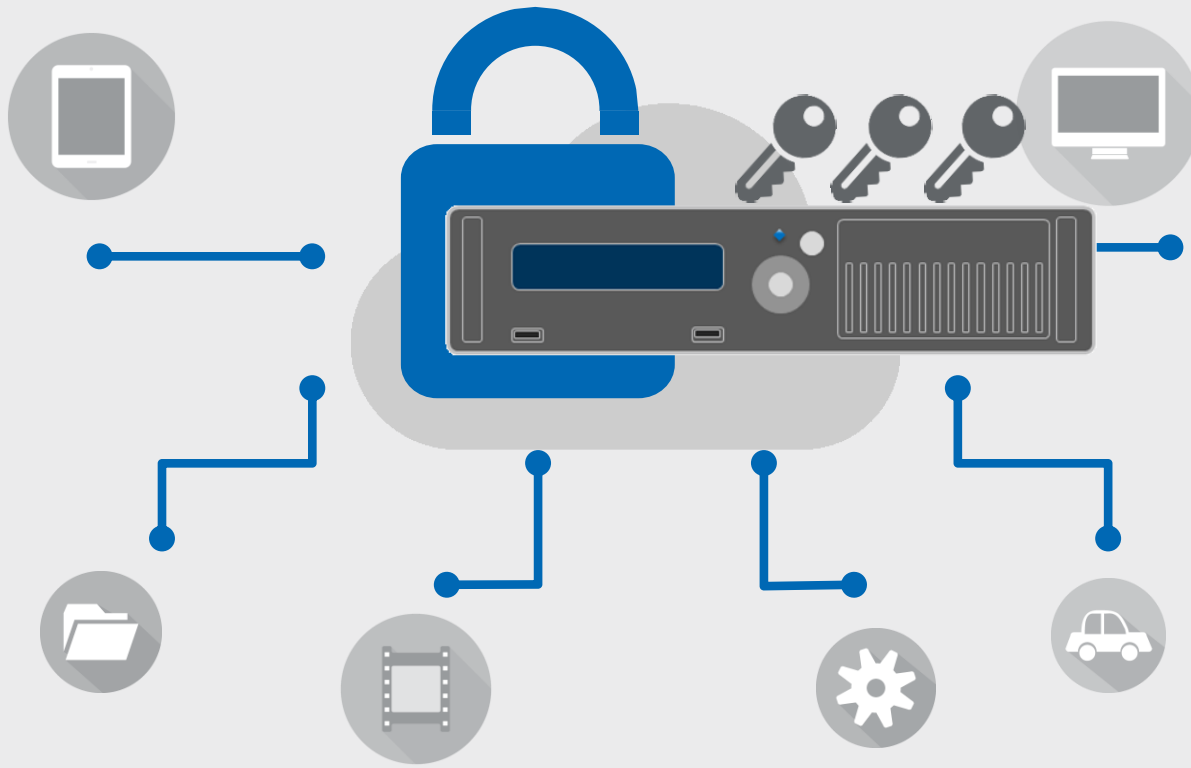
Security is Key

Encryption is the
baseline
technology
and the
cornerstone of
security



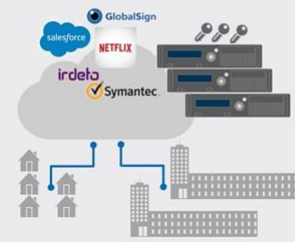
Separating the
encryption key
from the
encrypted data is
essential in
keeping data
secure





Compared to software technology, **hardware-based security** offers unmatched, **tamper-proof** protection without risk of third-party backdoor access, which is critical for any company looking to secure sensitive customer and corporate data both on premise and in the cloud.”

Malte Pollmann, CEO of Utimaco

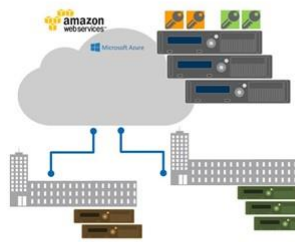


SaaS (&PaaS)

HSM is part of a specific Cloud offering

- Pros:
- Secure Key Storage
 - separation of Duty
 - Trust as a Product UsP

- Cons:
- HSM Interface needed
 - Special hardware required



IaaS

HSM offered as Infrastructure

- Pros:
- Flexible add on to existing onsite HSM Cluster
 - Coverign of load peaks
 - Reuse of existing key material

- Cons:
- HSM are not interoperable
 - No existing standard API, vender specific
 - Custom application support



Colocation

HSM on site, with a link to the cloud application

- Pros:
- Never give up key sovereignty
 - Clear separation of duty

- Cons:
- Security administration needed
 - Business critical application hard to impelemt

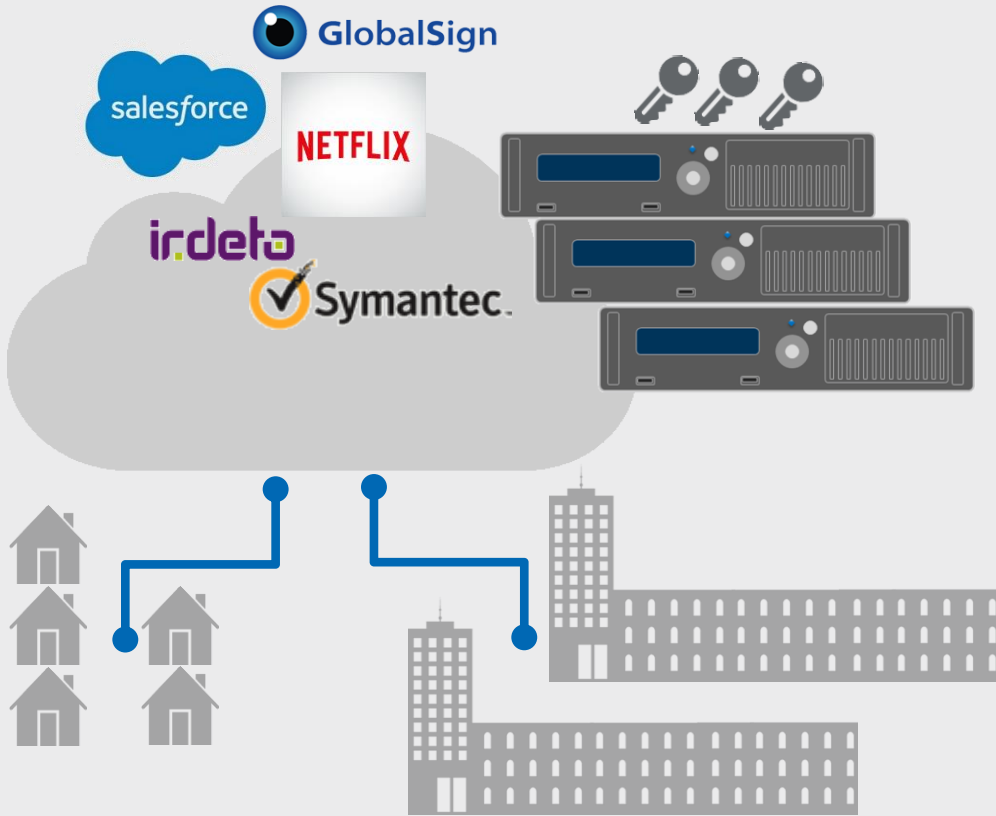


Cloud Gateway

HSMs are part of Gateway appliances

- Pros:
- Secure Key Storage
 - Max. privacy
 - Integrated key management

- Cons:
- Additional Hardware management
 - HSM Integration into Gateway Solution
 - Adminstration



SaaS (&PaaS)

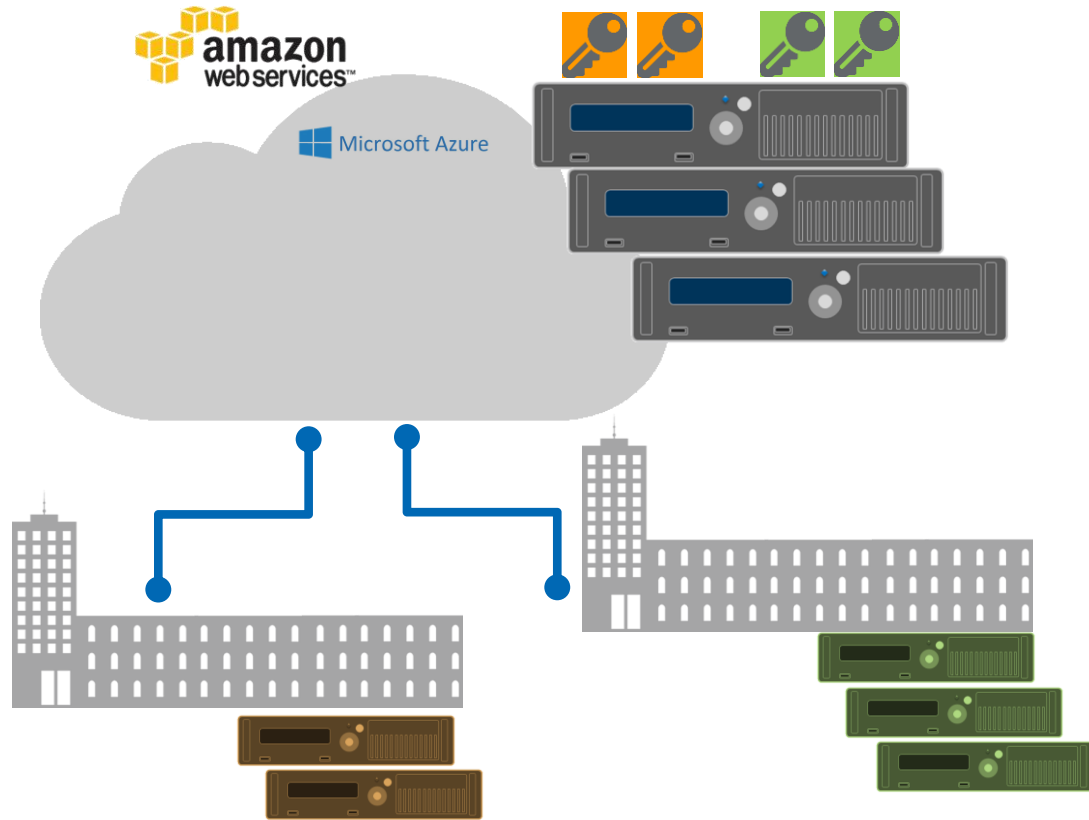
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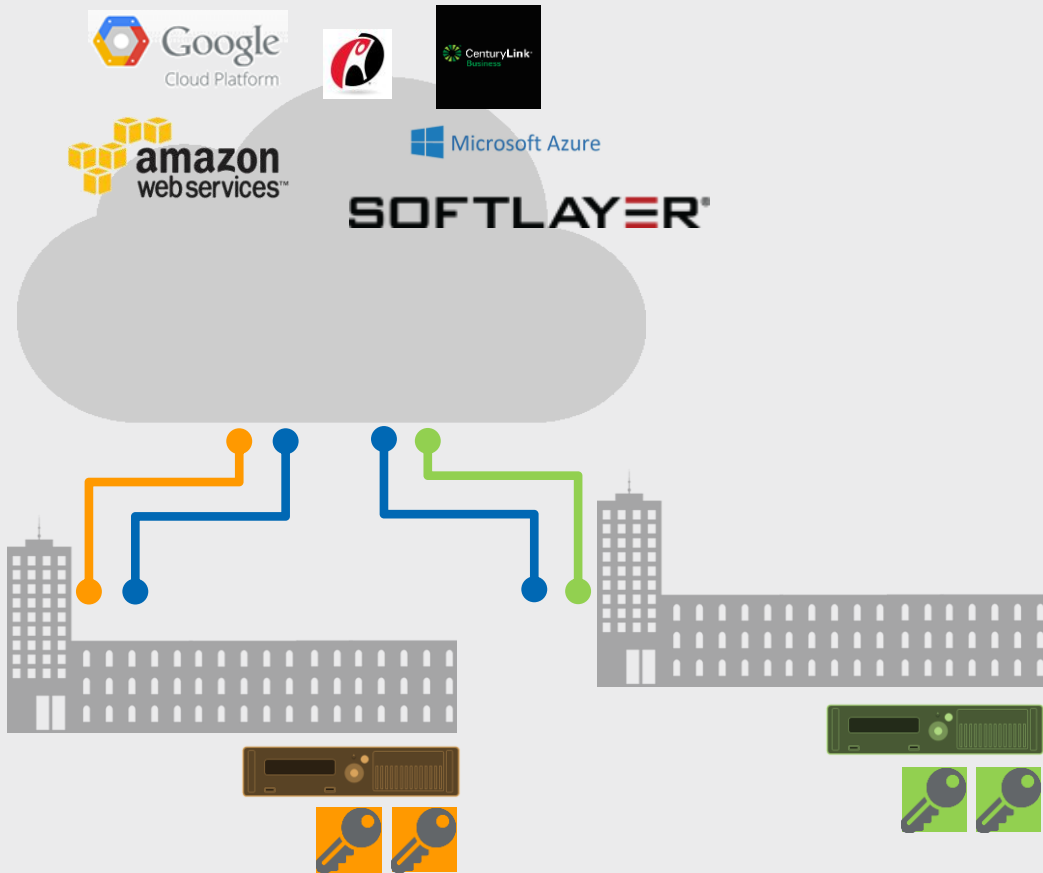
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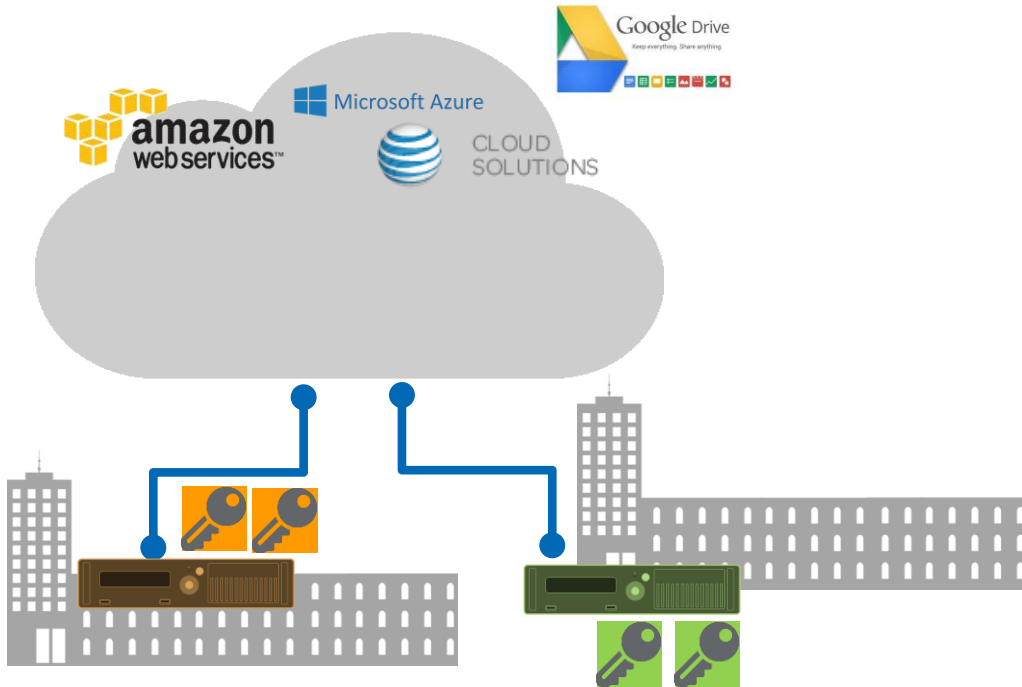
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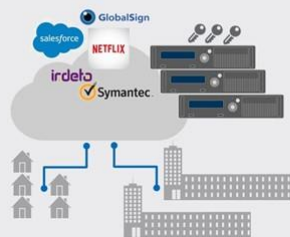


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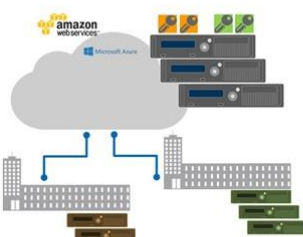
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Thanks for your attention!



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