

# The Future of the Payment HSM

Cryptography as a Service

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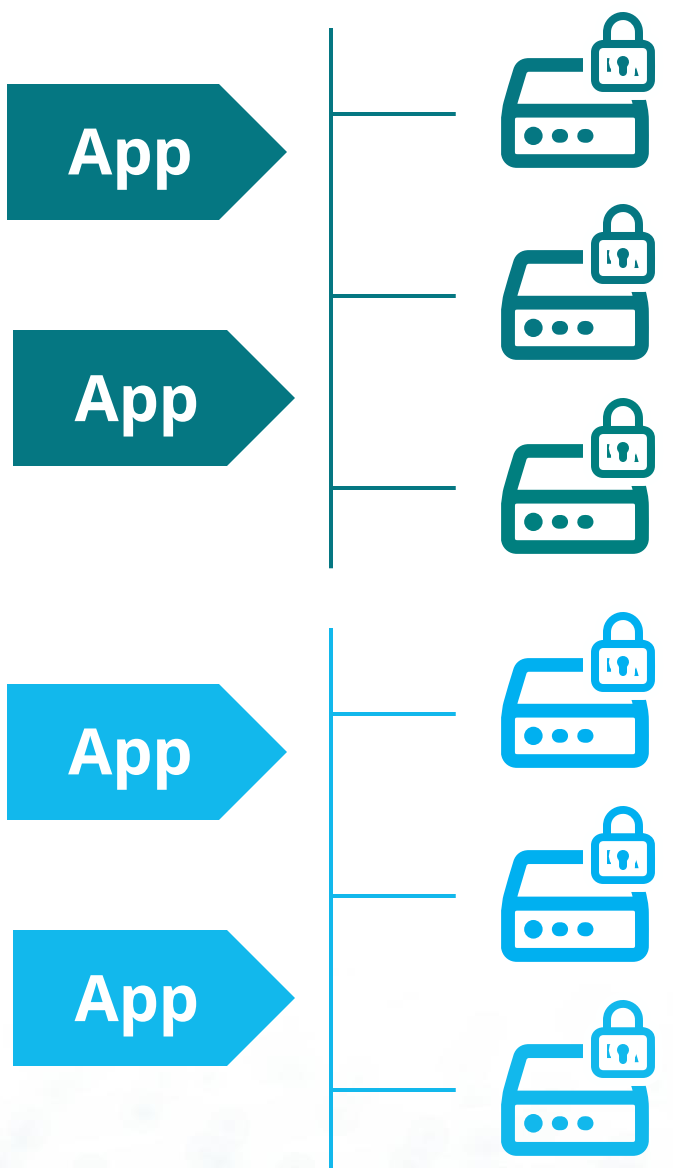


# What is *Payment Cryptography as a Service*?

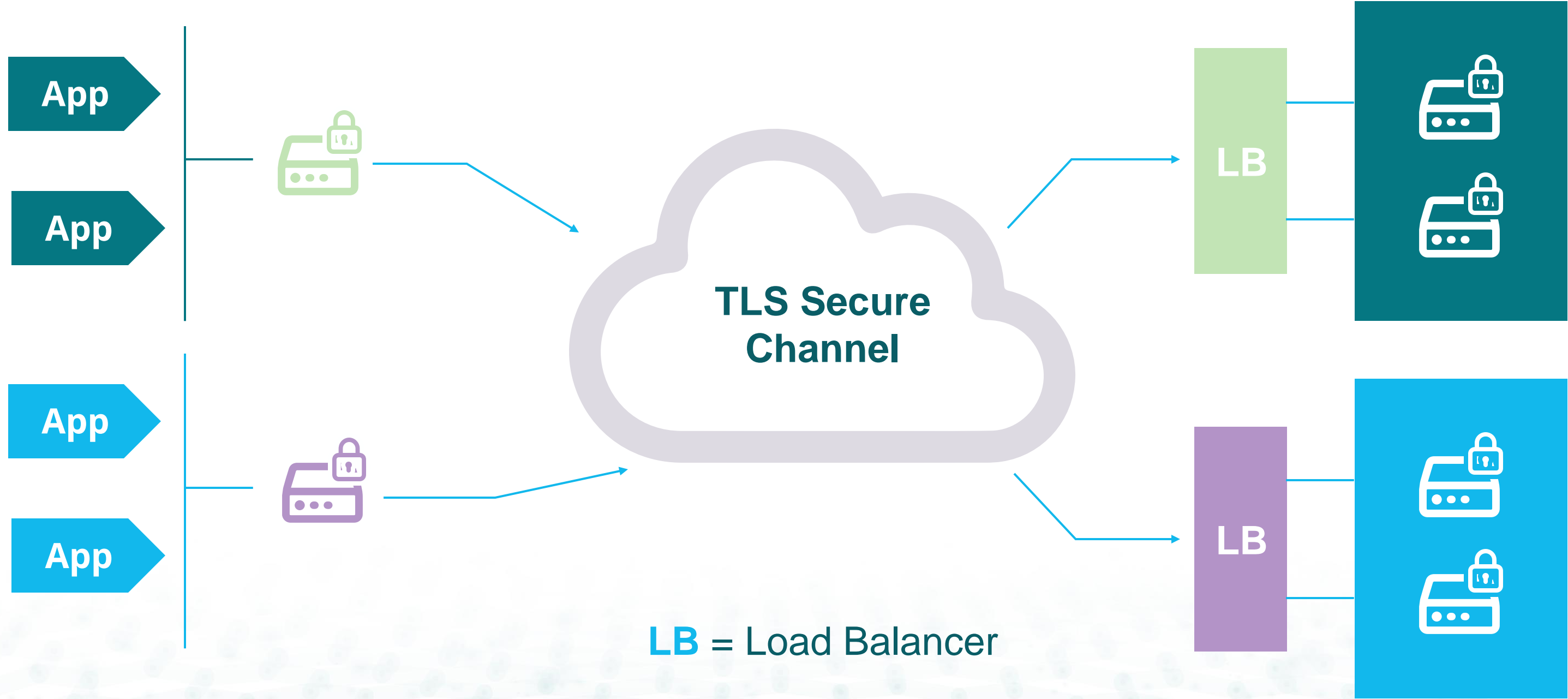
- We all know what a HSM is...
- On-premises, or in the Cloud?
- Bare metal or Cryptography as a Service
- The role of the Service Provider
- Commercial basis for Cloud HSM



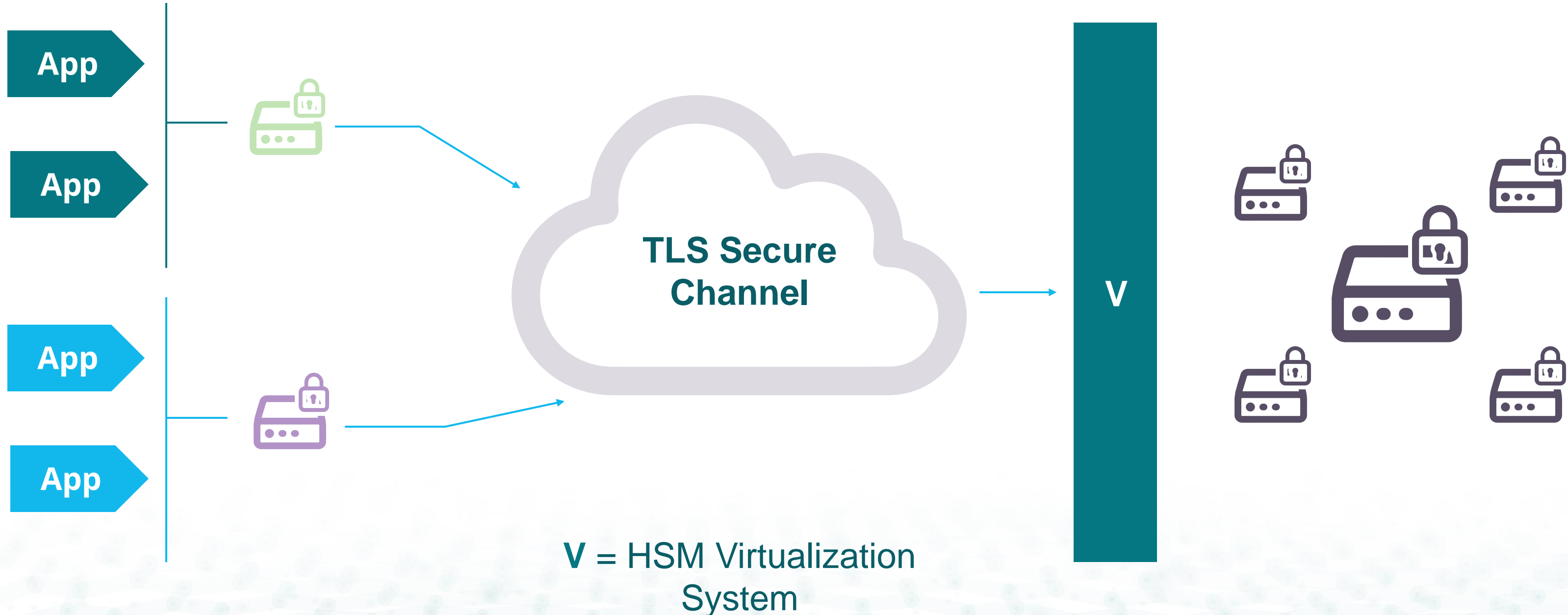
# Classic HSM connectivity



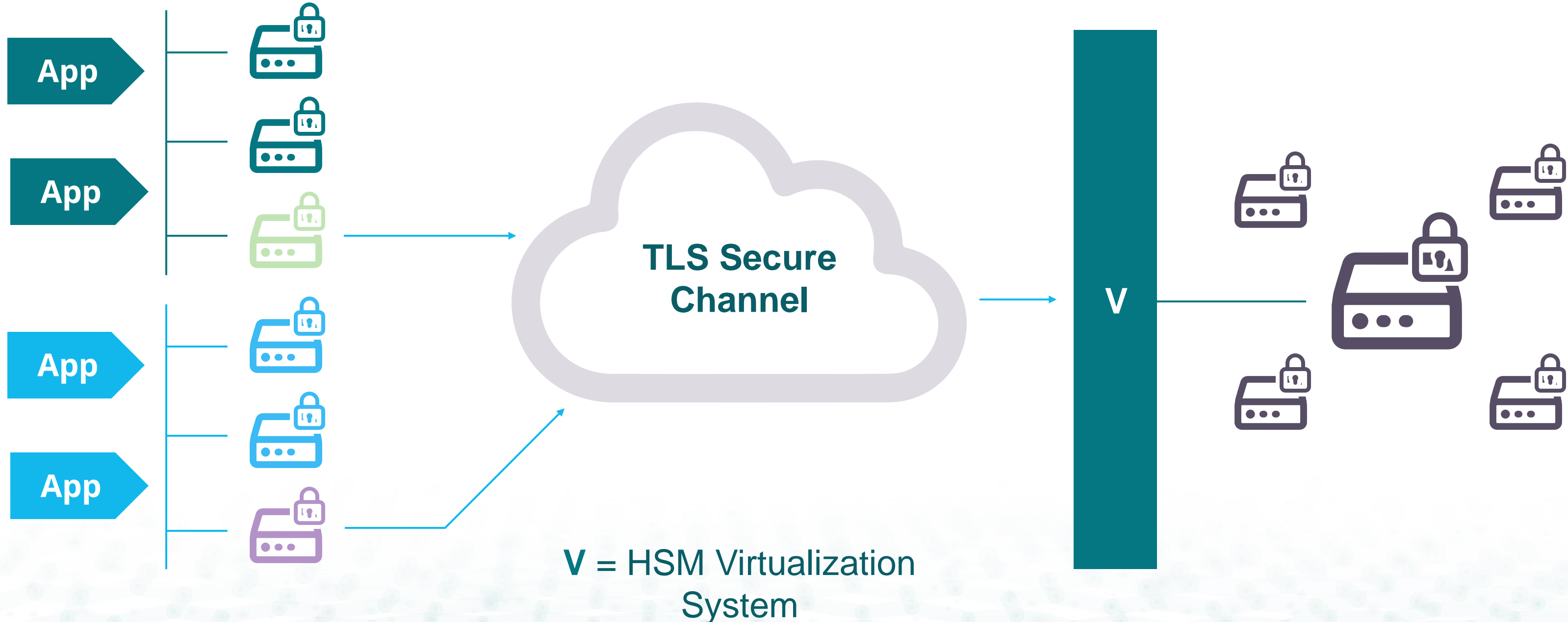
# Cloud HSM – Bare Metal



# Cloud HSM – Cryptography as a Service



# Cloud HSM – Hybrid HSM Pool



# What does the PCI compliance look like?

- Cloud HSM is nothing new for PCI
- Recent FAQ updates, PCI HSM v4
- What compliance to expect from a Service Provider
- Responsibility Matrix clarity
- PCI HSM v5 and PCI KMO coming along the tracks (RFC#1 review in progress)

# Key Management and Operational Security

- Changes to Key Management processes
- Separation in Multi-Tenant environments
  - Keys, Administration, Configurations, Users, Control
- Bring your own key (BYOK)
  - Master Keys and working keys
- The role of the SCD and KLD
- Impact of the forthcoming PCI KMO requirements



# Cloud HSM – Key Management Scenario



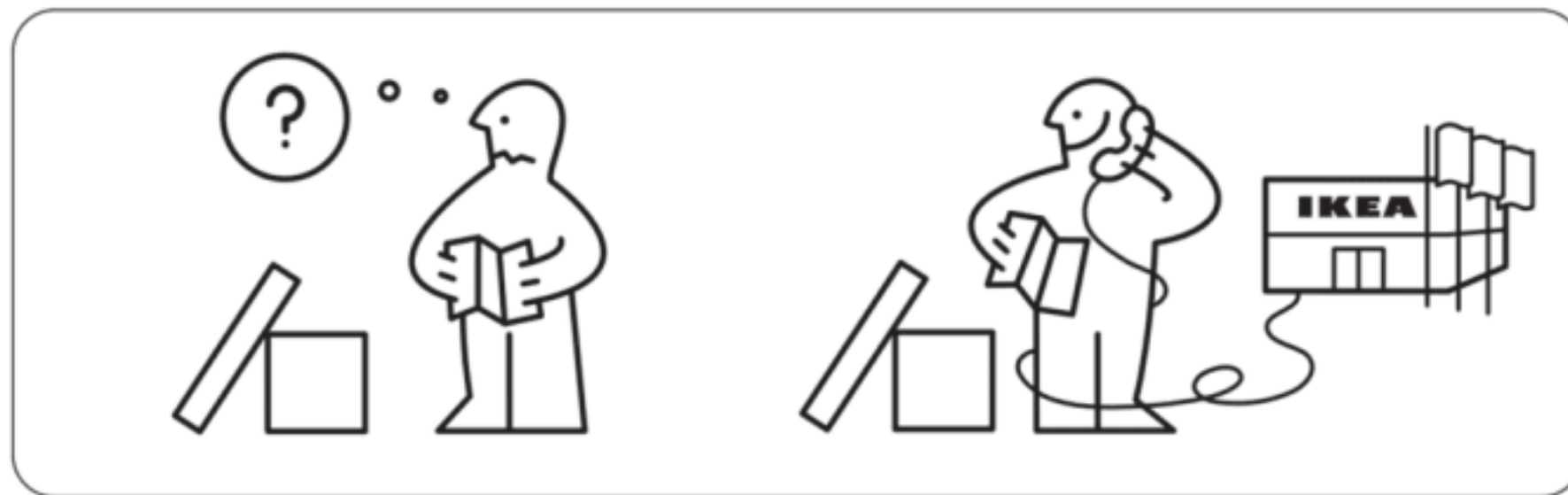
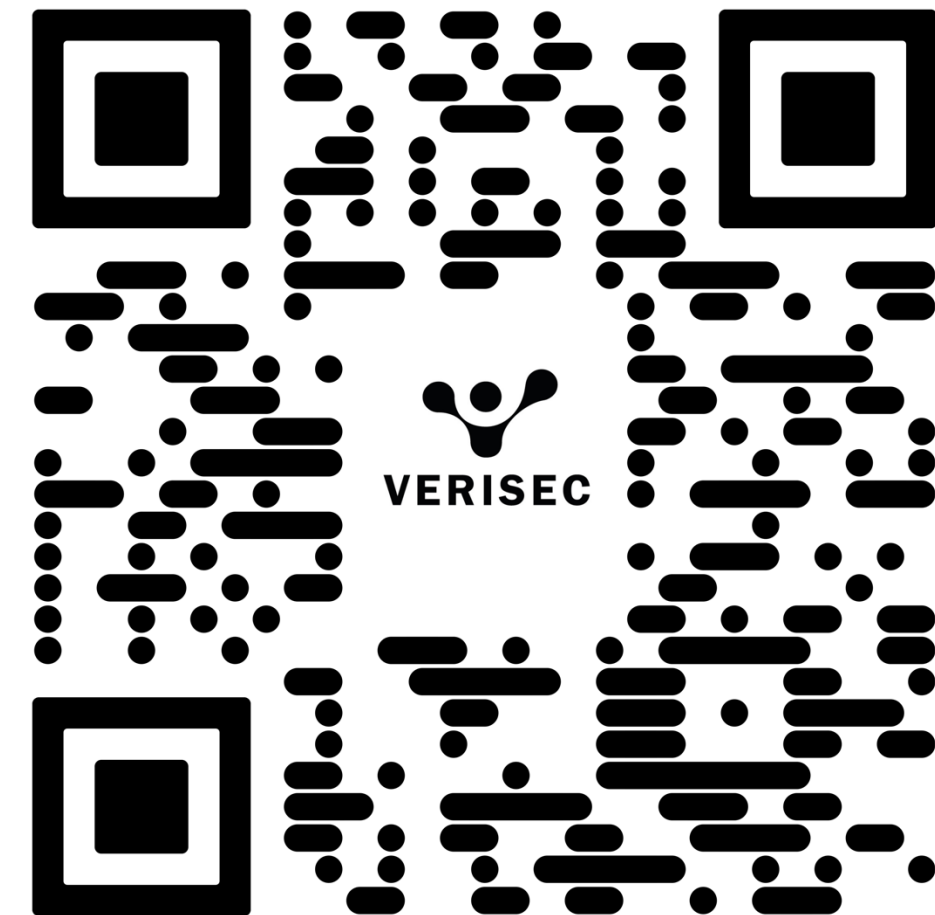
# What can Cloud HSM do for me?

- Shared responsibilities for operations and security
  - Cloud UX can deliver improved workflows
- Resolve legacy compliance gaps
- Complement Internal Cloud (Migration) Strategies
- Operational Security enhancements
- Significantly simplify key management



# Wrapping up

- It's not that difficult, especially with hybrid configurations
- Some direct customer experiences
- White Paper (covering various market offerings)
- Questions, then do get in touch...





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