

VirtuCrypt – Card and Mobile Issuing



Cloud payment HSM

Why VirtuCrypt – UAT and Development?

- Streamlined integration and billing via multiple methods, including signup through the Amazon Web Services (AWS) Marketplace.
- Full redundancy and high availability across worldwide data centers, with service-level agreement (SLA)-backed uptime of up to 99.999%.
- Secure communication directly from an AWS virtual private cloud (VPC) to VirtuCrypt, with no direct internet routing.
- Accessible from multiple AWS regions as well as from applications managed on-premises or in other clouds.
- On-demand provisioning and clustering of cloud payment HSMs.

Product overview

VirtuCrypt, Futurex's cloud hardware security module (HSM) platform, is an outstanding provider of enterprise class cloud security services. It uses Futurex's Federal Information Processing Standards (FIPS) 140-2 Level 3 and PCI HSM validated technology. VirtuCrypt cloud payment HSMs can perform cryptographic operations required for card and mobile issuing. This includes functions related to PIN and offset generation; online and mobile PIN management; and Europay, Mastercard, and Visa (EMV) key generation and derivation. Additional validation points are mobile payment token issuing and all related key management functions.

Product features

Hybrid deployment

Hybrid deployment with on-premises payment application and Futurex HSMs as well as VirtuCrypt cloud payment HSMs

Full industry compliance

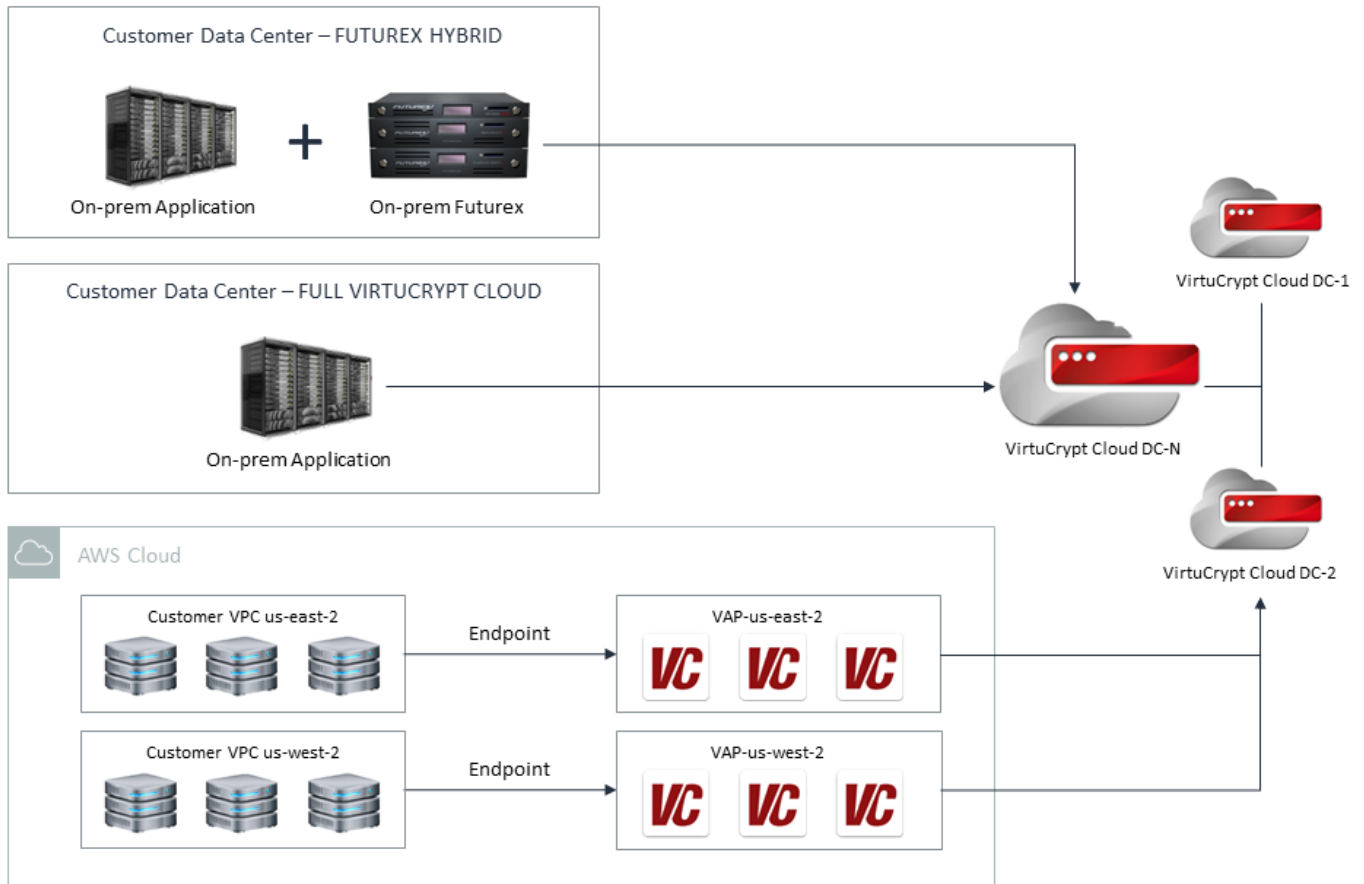
VirtuCrypt's cloud payment HSM service exclusively uses Futurex's FIPS 140-2 Level 3 and PCI HSM validated HSMs. The service ecosystem has received payment card industry data security standard (PCI DSS), payment card personal identification numbers (PCI PIN), P2PE, and VISA PIN/technical report (TR-39) certifications.

Fully-hosted cloud option

VirtuCrypt offers payment applications hosted in multiple AWS regions, connecting through VirtuCrypt Access Points (VAP) to VirtuCrypt cloud payment HSMs. Enables full redundancy, high availability, and expansion over time.

How it works

Organizations can connect to VirtuCrypt's cloud payment HSM service in a number of different ways. The most important initial decision for organizations is to determine where they wish to host their payment applications and HSM infrastructure. VirtuCrypt supports a range of different methods outlined in the diagram below. It also offers solutions architects available to advise organizations on the architecture that best fits their needs and goals.



Differentiators

- Payment card industry hardware service module (PCI HSM) and Federal Information Processing Standards (FIPS) 140-2 Level 3 validated financial cloud HSM.
- Software as a service (SaaS) validated through payment card industry data security standard (PCI-DSS), payment card personal identification numbers (PCI-PIN), and PCI-point-to-point encryption (P2PE) audits.
- Rapidly deploy compliant cloud payment HSMs for enterprise use cases.

Data Points

99.999%

SLA-backed uptime

\$266.4B

Public cloud services
market for 2020

Additional Resources

- [Cloud Payment HMS solutions page](#)
- [Case studies](#)
- [Schedule a demo](#)

Solution available in [AWS Marketplace](#)