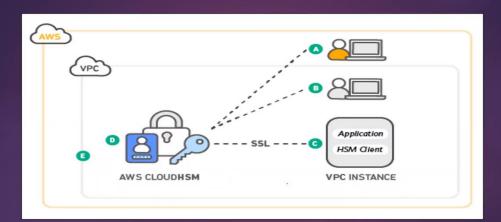
CloudHSM

What is Cloud Hardware Security Module (HSM)?

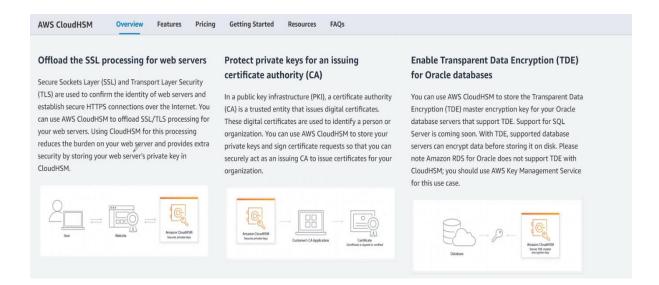
- A hardware security module (HSM) is a computing device that processes cryptographic
 operations and provides secure storage for cryptographic keys
- AWS CloudHSM is a cloud-based hardware security module (HSM) that enables you to generate
 and use your own encryption keys
- CloudHSM is a compliant with FIPS 140-2 Level 3 (The Federal Information Processing Standard Publication 140-2)
- It automates administrative tasks like hardware provisioning, software patching, high-availability, and backups
- Applications can integrate with CloudHSM using PKCS#11, Java Cryptography Extensions (JCE), and Microsoft CryptoNG (CNG) API libraries
- CloudHSM can scale quickly on-demand with no up-front costs

How does CloudHSM work?



- AWS CloudHSM provides hardware security modules (HSMs) in a cluster
- A cluster is one logical HSM
- To interact with the HSMs in a cluster, you need the AWS CloudHSM client software.
- Client can be installed on Amazon EC2 instances, known as client instances, that reside in the same VPC as the HSM ENIs,
- When you perform a task or operation on one HSM in a cluster, the other HSMs in that cluster are automatically updated.
- You can create a cluster that has from 1 to 28 HSMs (the default limit is 6 HSMs per AWS account per AWS Region)

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Benefits

- Generate and manage cryptographic keys
- Cluster based makes it easy to load balance and scale API based integration for Applications
- Integrates with AWS KMS to create custom key stores

Price

Pay by the hour with no long-term commitments or upfront payments.