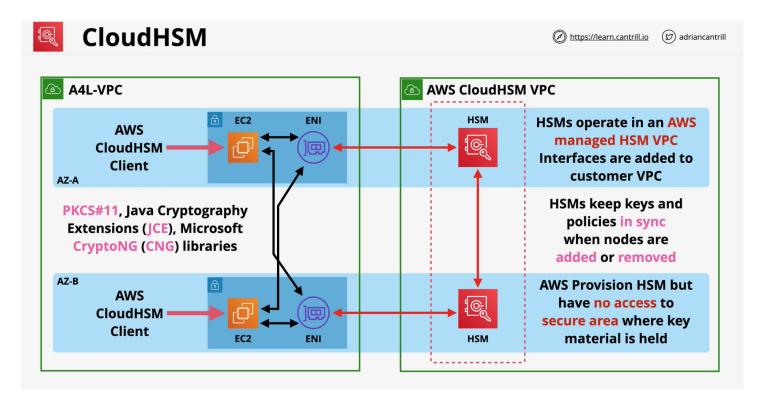
CloudHSM

- HSM hardware security module to manage cryprtographic operations
- AWS provisioned it but full managed by customer
- Federal Information Processing Standard Publication 140-2, (FIPS PUB 140-2)
- Fully FIPS 140-2 Level 3 (KMS is L2 overall, some L3)
- KMS can use CloudHSM as a custom key store, CloudHSM integration with KMS (newer feature)

CloudHSM	KMS
FIPS 140-2 level3	FIPS 140-2 level 2 (some L3)
Industry Standard API - PKCS#11, Java Cryptography Extenstion (JCE), Microsoft CryptoNG (CNG) libraries	Communicated via

 Configure HSM in cluster mode to ensure HA mode (multi AZ). By default, it does not run on HA mode.



Use Cases

• No native AWS integration .. e.g. no s3 SSE

- o client side encryption can be used before uploading
- Offload the SSL/TLS Processing of Web Servers.
- Enable Transparent Data Encryption (TDE) for Oracle Databases
- Protect the Private Keys for an Issuing Certificate Authority (CA)