

# cloud hsm

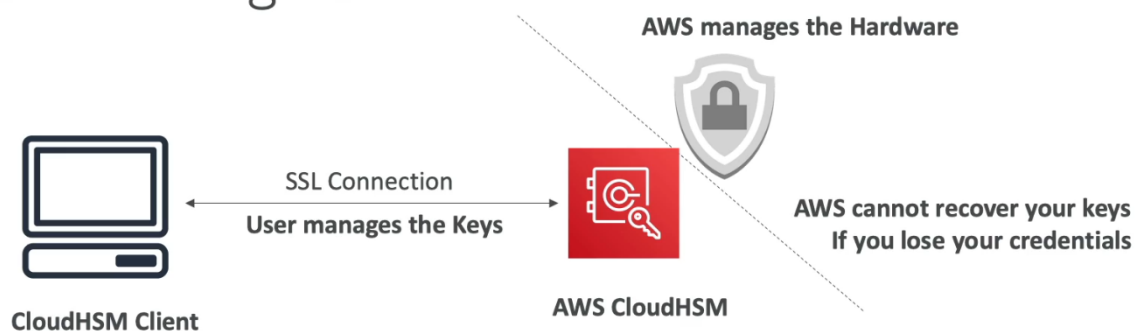
it is other type of enq



## CloudHSM

- KMS => AWS manages the software for encryption
- CloudHSM => AWS provisions encryption **hardware**
- Dedicated Hardware (HSM = Hardware Security Module)
- You manage your own encryption keys entirely (not AWS)
- HSM device is tamper resistant, FIPS 140-2 Level 3 compliance
- CloudHSM clusters are spread across Multi AZ (HA) – must setup
- Supports both symmetric and asymmetric encryption (SSL/TLS keys)
- No free tier available
- Must use the CloudHSM Client Software
- Redshift supports CloudHSM for database encryption and key management
- Good option to use with SSE-C encryption

## CloudHSM Diagram



IAM permissions:

- CRUD an HSM Cluster

CloudHSM Software:

- Manage the Keys
- Manage the Users