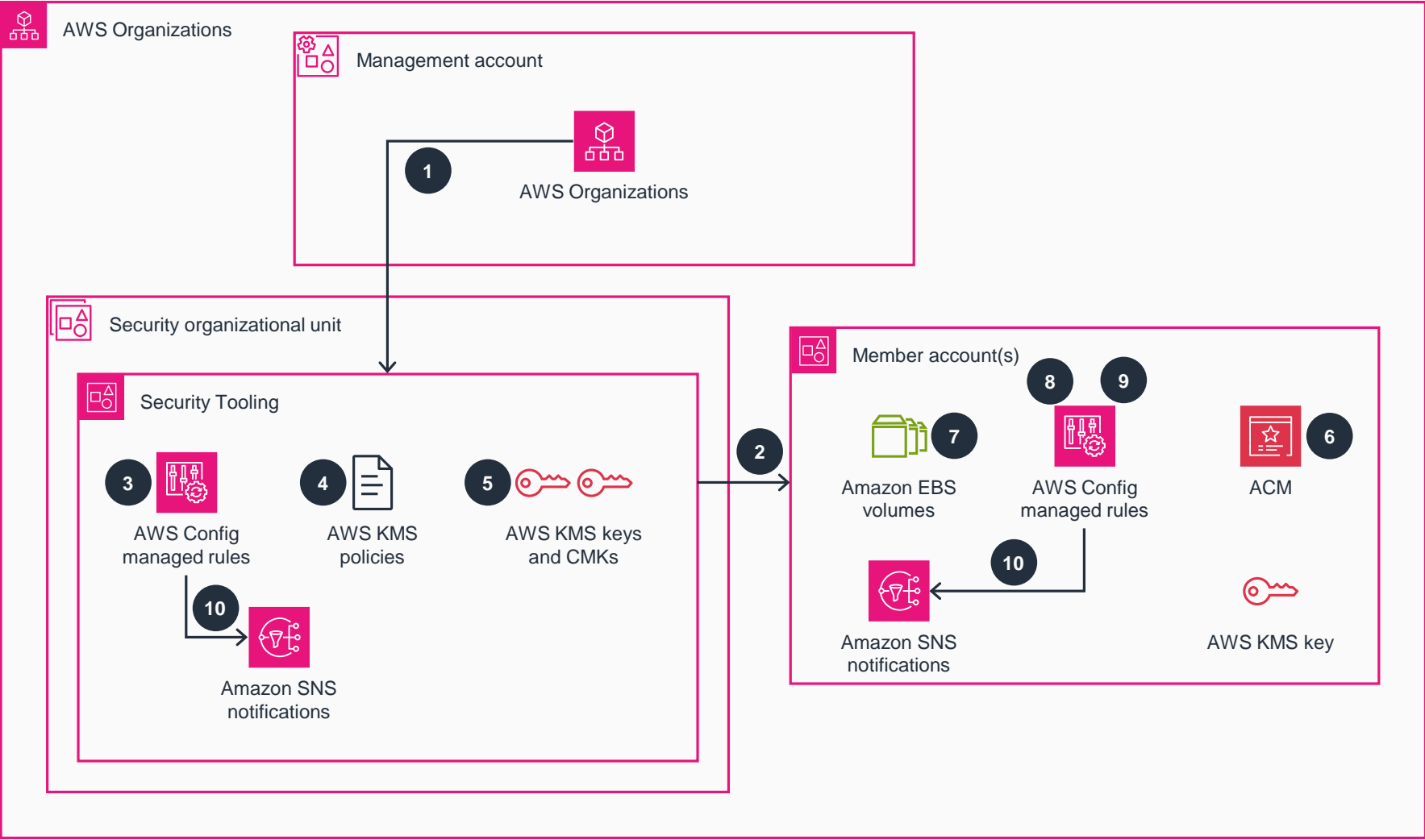


Guidance for Encryption & Key Management on AWS

This architecture diagram shows how to implement a customized encryption and key management strategy on AWS, enabling you to encrypt data at rest and in transit, provide least privilege access to keys, report on anomalies, and rotate keys.



- 1 Deploy and configure an AWS Security Tooling account for central key storage operations and sharing with **AWS Organizations**.
- 2 Enable **AWS Key Management Service (AWS KMS)** automatic key rotation for **AWS KMS** key lifecycle management.
- 3 Deploy an **AWS Config** managed rule to monitor **AWS KMS** lifecycle management in the Security Tooling account.
- 4 Configure **AWS KMS** key policies to allow secure access across **Organizations**.
- 5 Use AWS-managed **AWS KMS** keys and customer managed keys (CMKs) as required by your governance requirements.
- 6 Use **AWS Certificate Manager (ACM)** to automate the generation and management of SSL certificates.
- 7 Enforce **Amazon Elastic Block Store (Amazon EBS)** volume default behavior to be encrypted on generation. Monitor the encryption using **AWS Config** managed rules on all **Organizations** member accounts.
- 8 Deploy **AWS Config** managed rules to monitor the encryption of AWS services with network connections.
- 9 Deploy **AWS Config** managed rules to monitor the encryption of AWS services with persistent data.
- 10 Receive notifications for compliance using **Amazon Simple Notification Service (Amazon SNS)**.